100--38-101

# FM2 FAA14001

# FM2n FAA14002

# FM2/T FAA14132

## REPAIR MANUAL

NIPPON KOGAKU K.K.

Tokyo, Japan

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# SPECIFICATIONS & MECHANISM

Contents Page

[1] FIGURE OF EXTERNAL ..... M1

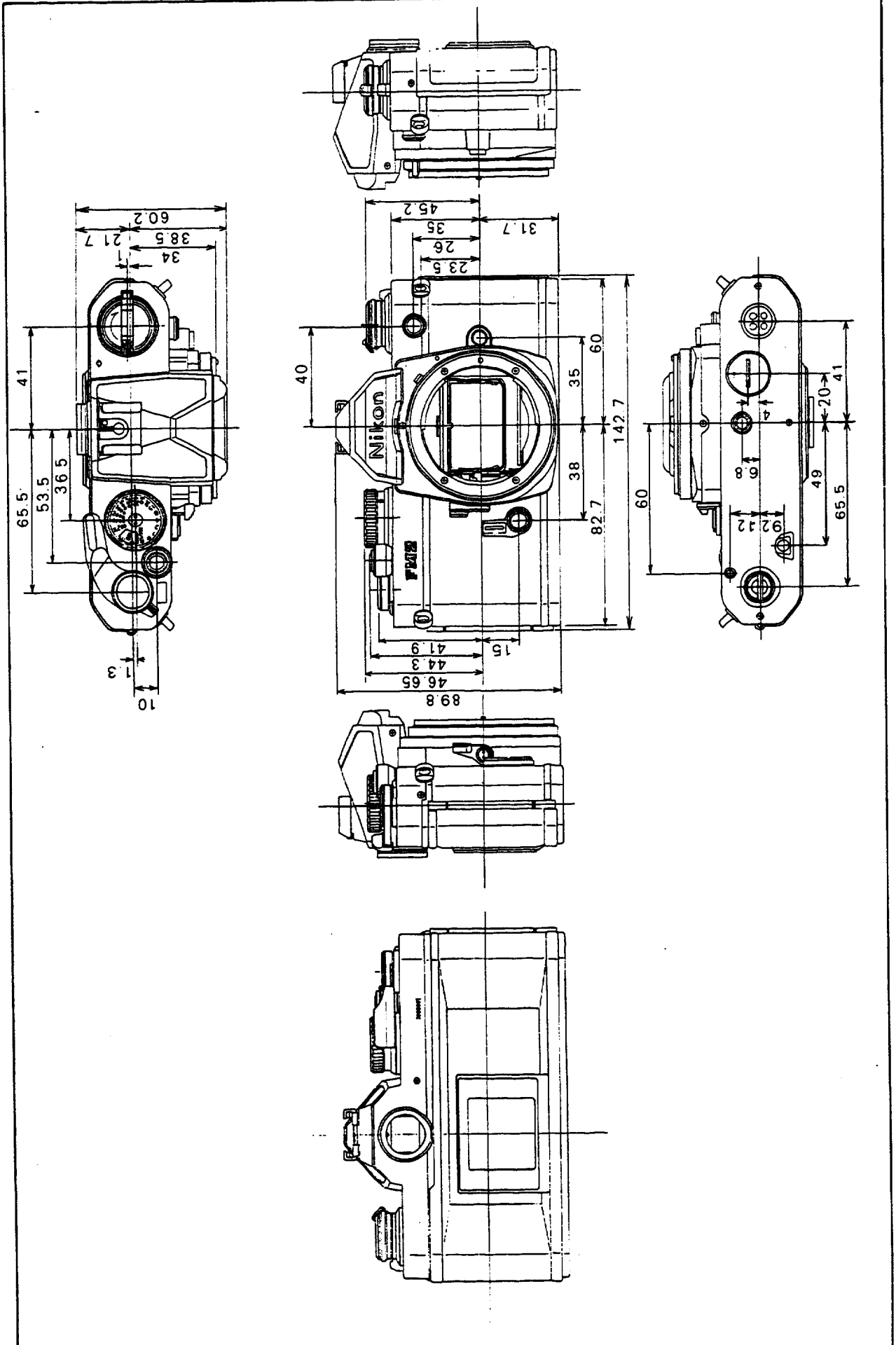
[2] SPECIFICATIONS ..... M2

[3] MECHANISM OUTLINE

1. Meter Coupling System ..... M4
2. Mirror Box Mecanism ..... M6

# 〔1〕 外観図　Figure of External

FAA14001-R.3110.A



## [2] SPECIFICATIONS

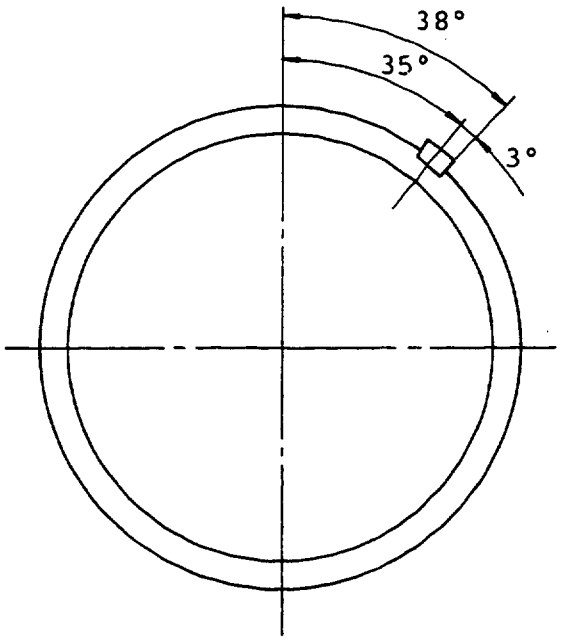
| | |
|---|---|
| Type of camera: | 35mm single-lens reflex |
| Film: | 35mm film |
| Picture format: | 24mm x 36mm |
| Lens mount: | Nikon boyonet mount |
| Lenses: | Nikkor 50mm f/1.2, 50mm f/1.4 or 50mm f/1.8 as standard |
| Shutter: | Vertically traveling metal focal-plane shutter; shutter speeds from 1 sec. to 1/4000 sec., including "B" and "X" (1/200 sec.) |
| Self-timer: | 8 sec. - 14 sec. delayed exposure |
| Viewfinder: | Eyelevel pentaprism type; 93% frame coverage |
| Focusing screen: | Type K as standard; interchangeable with B and E type; clip-on type installation |
| Viewfinder display: | Three LEDs display five exposure gradations; shutter speed in use; aperture in use shown through ADR window |
| Automatic Maximum Aperture Indexing: | Provided |
| Reflex mirror: | Automatic instant-return type |
| Depth-of-field preview lever: | Provided |
| Film-advance lever: | Wound in single stroke; 30° stand-off angle and 135° winding angle |
| Batteries: | Two 1.5V silver-oxide button type cells or 3.0V lithium cell; LEDs viewfinder display doubles as battery checker |
| Motor drive usable: | MD-11/12 |
| Multiple exposure lever: | Provided |
| Frame counter: | Additive type; automatically reset when camera back is opened |
| Film rewind: | By crank after film rewind button is depressed |
| Exposure metering: | Through-the-lens center-weighted metering; two silicon Photo Diodes(SPD) incorporated |

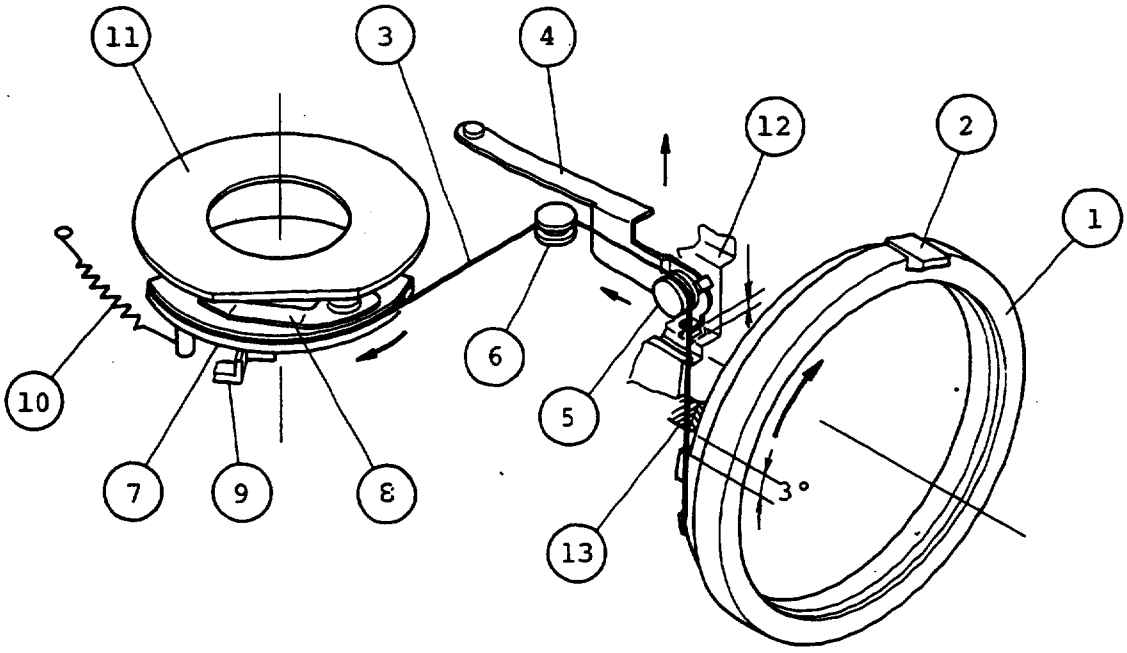
| | |
|---|---|
| Metering range: | EV1 to EV18(with 50mm f/1.4 lens and ASA 100 film) |
| Film-speed setting: | ASA 12 to ASA 6400 |
| Shutter release button: | Switches meter on when depressed halfway; meter then remains on for approx. 30 sec. after finger is taken off button |
| Flash synchronization: | Speeds up to 1/200 sec. |
| Accessory shoe: | Provided; ready-light contact incorporated |
| LED ready-light: | Glows when SB-10 or SB-E is recycled; warns out-of-synchronization shutter speeds |
| Camera back: | Hinged; interchangeable type; opened by pushing safety lock while pulling up rewind knob; memo holder provided |
| Dimensions: | Approx. 89.7(H) x 142.3 (W) x 60.2mm(D) |
| Weight: | Approx. 590g (without lens) |

## [3] MECHANISM OUTLINE

### 1. METER COUPLING SYSTEM

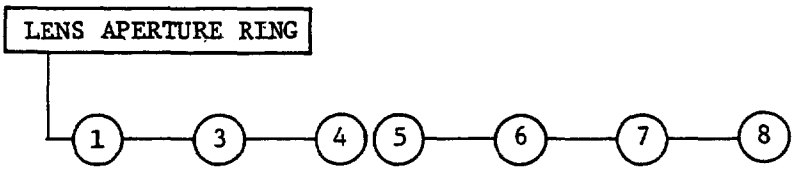
The meter coupling system is provided with the automatic maximum aperture indexing, which has been introduced into the earlier models such as Nikon FM and FE etc. But the meter coupling lever is not retractable for mounting the non-AI Nikkor lenses.



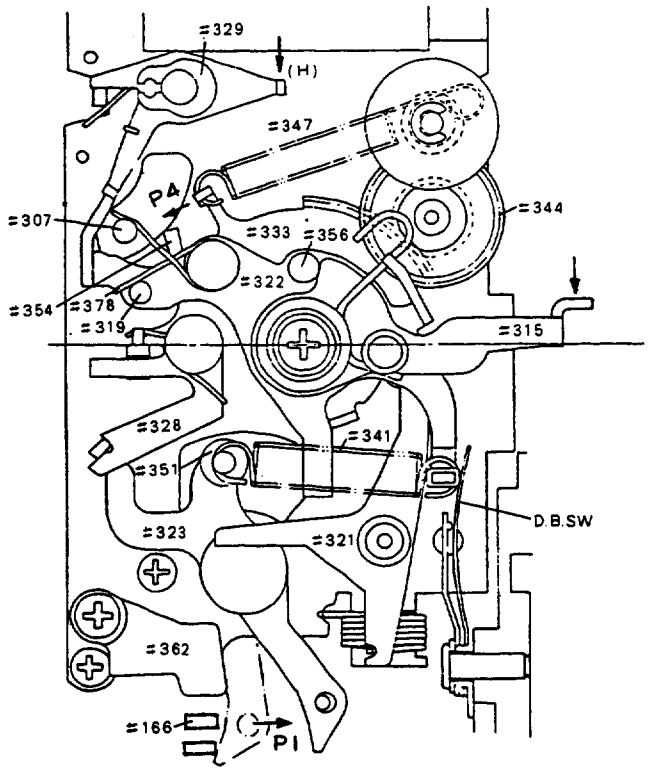



When mounting the lens onto camera body, the meter coupling ridge of lens is engaged with Meter coupling lever (2). Meter coupling ring (1) is connected to Pully (7) via String (3), which is loaded with Spring (10). Thus Meter coupling lever (2) is kept being drawn clockwise toward the largest aperture. Pully (7) is incorporated with Brush (8) moving along FRE (11), where the angle of aperture ring is converted, into resistance value in FRE (11). Rotation of Pully (7) comes to the limit when Stopper (9) located on shutter dial base restricts its rotation. The position is equivalent to the angle 35° where Meter coupling lever (2) reverses freely. Roller (5) is kept being drawn to the arrow direction, with Spring (4) of smaller tension than that of Spring (10) loaded. Then, when removing the lens, Meter coupling ring (1) reverses via String (3) tensioned by Spring (10). After Meter coupling lever (2) reverses to the angle of 35°, Pully (7) is stopped against Stopper (9). Thus there is a space gap of angle of 3° between Meter coupling lever (2) and Stopper (13). So the tension of Spring (4) reverses Meter coupling ring (1) further until the space gap of angle of 3° is eliminated.
When replacing the lens, rotation of Meter coupling ring (1) will bend Sping (4) against front plate die-casting. Further rotation allows Pully (7) to move along FRE (11) via String (3) and Rollers (5), (6). It changes resistance value in FRE (11) as mentioned above.
Meter coupling lever (2) is engaged with the meter coupling ridge of lens at the angle of 37°30' when setting a lens of f/1.4 or f/1.2 to the largest aperture. This angle is reduced to 35° when mounting a lens of slower speeds than f/1.4 in the same sequence as Nikon FM, FE, EM and F3.

OPERATION FLOW-CHART



## 2. MIRROR BOX MECHANISM




### (1) MIRROR CHARGE

Winding film-advance lever pushes Mirror charge lever (#166) toward the arrow (P1) direction. Mirror down spring (#343) and Mirror up spring (#341) are also charged in the same step. Mirror charge lever is cocked by Signal lever (#328).

### (2) MIRROR RELEASE

Depressing shutter release button allows see-saw lever to push Mirror-up stop lever (#329) at the end of (H). Mirror-up stop lever turns clockwise and disengages Mirror-up lever (#322). Mirror-up lever is loaded with Mirror-up spring (#341) and thus turns clockwise. Simultaneously, Aperture lever (#315) secured with 3.1 eccentric axle (#356) turns in accordance with Mirror-up lever. Soon after Mirror-up lever moves, Data back switch is closed. Mirror-up lever pushes Mirror holder pin (#307) to raise reflex mirror to the taking position. When reflex mirror moves up to the position which is 3-7mm from mirror box sponge, Unlatch axle (#319) installed atop Mirror-up lever unlatches Stop lever (#354). Stop lever frees Functional gear (#333) and Functional gear turns clockwise, with actuated by Spring (#347). The other half of functional gear forms a cam which is engaged with Shutter release lever (#321). Then, the rotation of functional gear allows Shutter release lever to turn counterclockwise along the cam section. Shutter release lever releases opening curtain lever of shutter unit. So shutter release is started. The gear section of Functional gear is engaged with Fly wheel (#335) via Idle gear (#344), which slows the rotation of Functional gear and provides a time lag from completion of mirror rising to start of shutter release.

(3) MIRROR DOWN

Closing curtain lever of shutter unit releases Signal lever (#328) after shutter release is completed. It unlatches Mirror down lever (#323) and the tention of Mirror down spring (#343) actuates Mirror-up lever (#322). Aperture lever (315), Shutter release lever (#321) and Functional gear (#333) to the original positions. Reflex mirror loaded with Spring (#378) moves down to the viewing position. After Mirrow down lever (#323) returns completely, Mirror-up lever (#322) and Functional gear (#333) are cocked securely.

# EXPLOSION DRAWINGS

Contents Page

Drawings of Complete Camera Section

Top Cover ..... F1

Film-advance Lever Unit ..... F3

Film-advance Mechanism Unit ..... F5

Film-advance shaft / Sprocket ..... F7

Shutter Control Unit ..... F9

Rewind ..... F11

Bayonet ..... F13

Pentagonal prism ..... F15

Front Plate (1) ..... F17

Front Plate (2) ..... F19

Body ..... F21

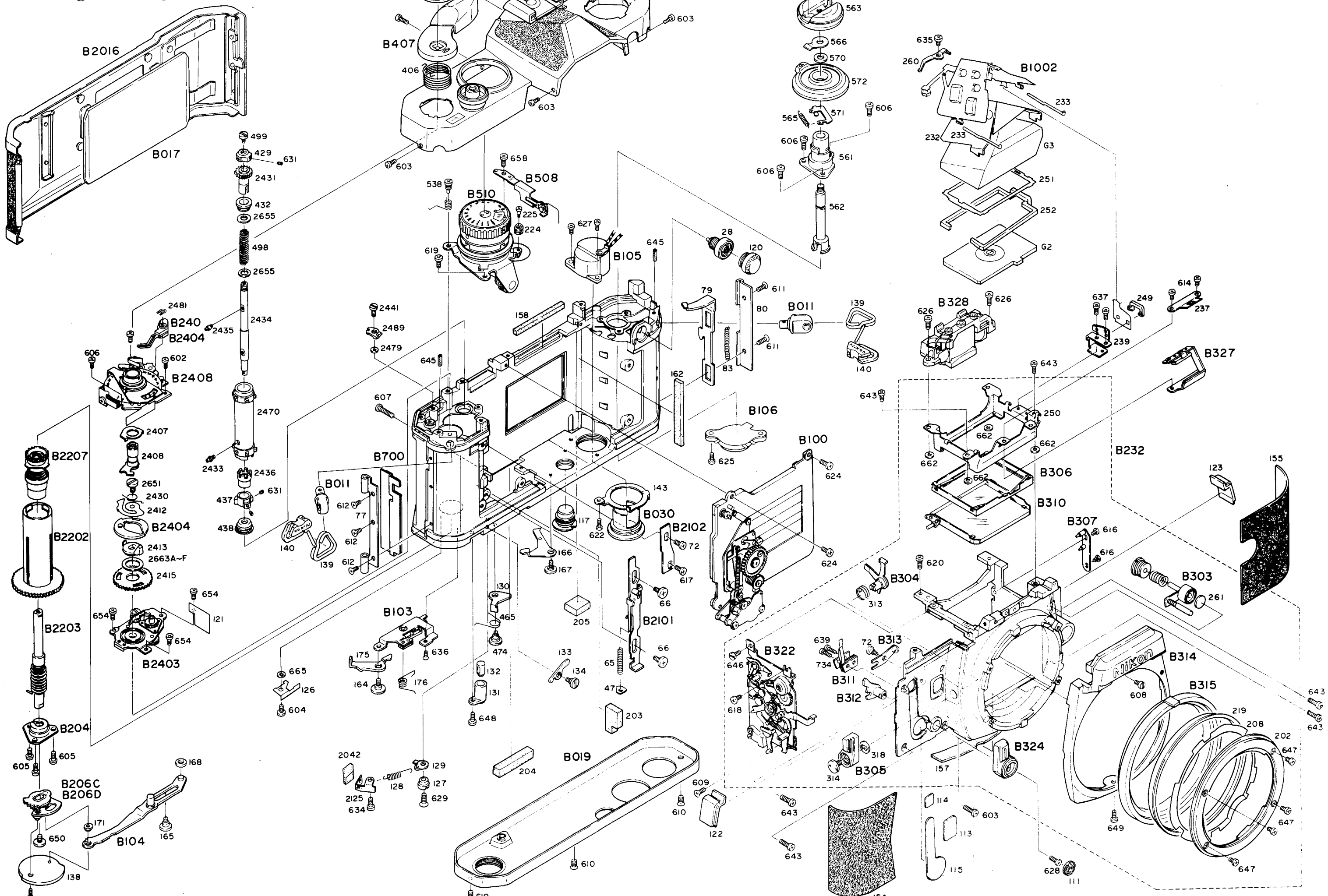
Bottom Cover ..... F23

Camera Back ..... F25

Camera Back Hinge ..... F27

# 総組図
## Drawing of Complete Camera Section





# 上カバー部 Top cover

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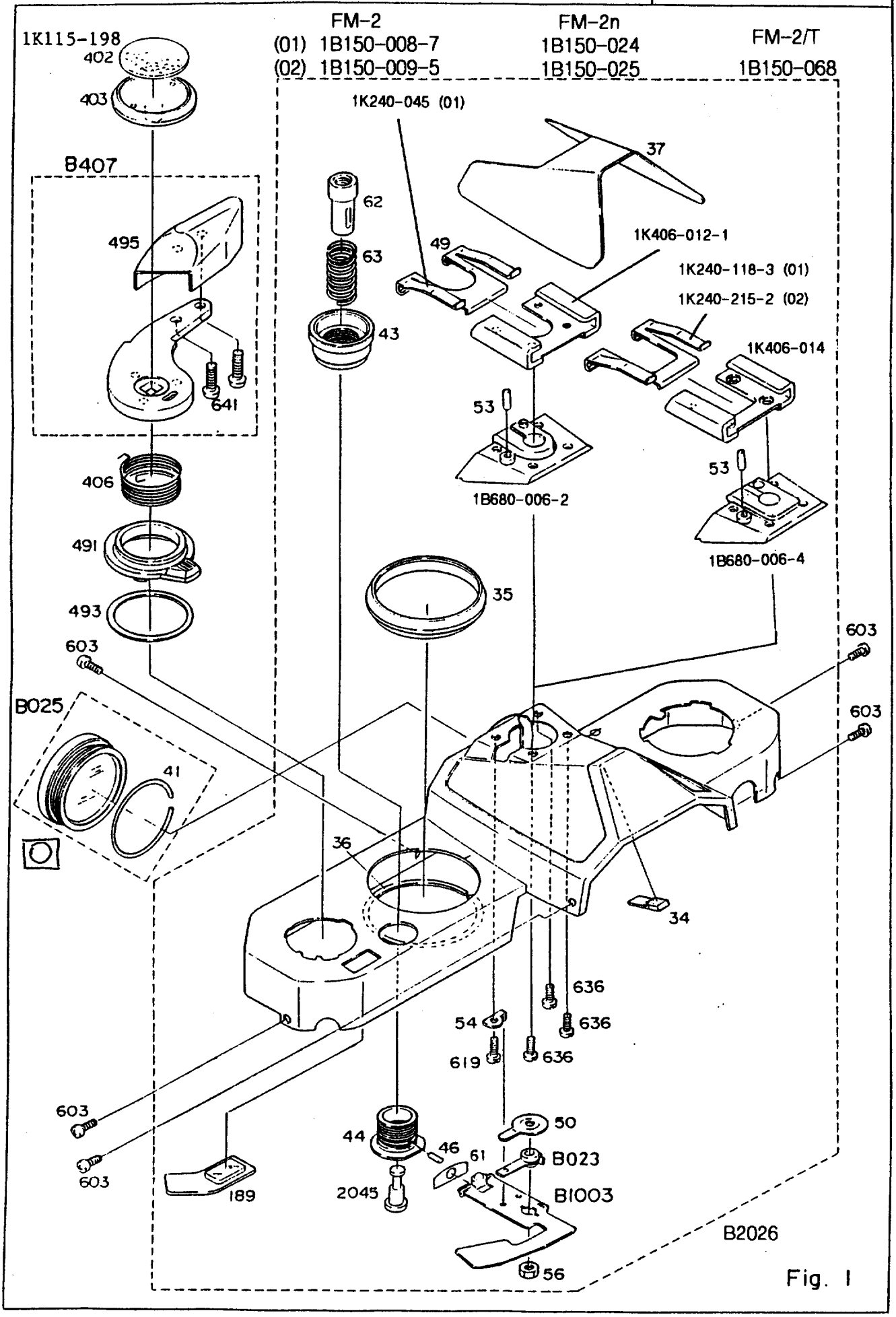



Fig. 1

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 34 | 1K115-180 | グンカン貼付ゴム<br>Rubber, top cover | 495 | 1K680-110 | 指あて<br>Film-advance lever knob |
| 35 | 1K640-189-1 | 飾り環<br>Cover ring, shutter dial | 603A | A1-17030FC | Screw |
| 36 | 1K248-001 | 飾り環座金<br>Washer, cover ring #35 | 603B | 1K001-005 | Screw (black) |
| 37 | 1K115-181 | ペンタ皮<br>Leatherette, top cover | 619 | B1-17035FA | Screw |
| 41 | 1K233-014 | 接眼ガラス押えバネ<br>Eyepiece glass clip | 636 | B1-17030FA | Screw |
| 43 | 1K630-080 | レリーズ釦飾り環<br>Release button cover ring | 641 | 1K010-019 | 巻上レバービス<br>Screw |
| 44 | 1K640-190 | かぶせレリーズ環<br>Release ring | 2045 | 1K370-363 | レリーズ内筒<br>Release inner tube |
| 46 | 1K040-001-1 | レリーズガイドビス<br>Screw | | | |
| 48 | 1K406-012-1 | Hシュー<br>Hot shoe contact | | | |
| 49 | 1K240-045 | シューバネ<br>Shoe contact spring | | | |
| 50 | 1K240-046 | 押え接点<br>Upper contact, shoe | | | |
| 53 | 1K360-007 | 押 棒<br>Switch plunger | | | |
| 54 | 1K610-166 | アースラグ板<br>Earth lug plate | B022 | 1B680-006-1 | シュー座モールド<br>Shoe mount mold |
| 56 | 1K030-001 | 六角ナット<br>Nut | B023 | 1B240-003 | 接点モールド<br>Contact mold |
| 61 | 1K115-293 | LED遮光板<br>Light-tight, LED | B025 | 1B100-067-1 | 接眼窓<br>Eyepiece ring |
| 62 | 1K400-077-1 | レリーズ釦<br>Release button | B407 | 1B206-004 | 巻上レバー<br>Film-advance lever |
| 63 | 1K220-036 | レリーズボタンバネ<br>Spring, shutter release button | B1003 | 1S005-002 | レディライトプリント板<br>Circuit board, ready-light |
| 189 | 1K625-007-1 | 枚数計窓<br>Frame counter window | B2026A | 1B150-008-7 | 上 蓋<br>Top cover |
| 402 | 1K115-198 | 巻上レバー用皮<br>Leatherette, film-advance lever | B2026B | 1B150-009-双-5 | 上 蓋<br>Top cover (black) |
| 403A | 1K146-017 | レバー押えネジ<br>Film-advance lever screw | | | |
| 403B | 1K146-018 | レバー押えネジ<br>Film-advance lever screw | | | |
| 406 | 1K230-039 | レバー戻しバネ<br>Spring, film-advance lever reverse | | | |
| 491 | 1K206-002 | 多重撮りツマミ<br>Multi-exposure knob | | | |
| 493 | 1K160-181 | 多重撮りシートB<br>Multi-exposure sheet B | | | |

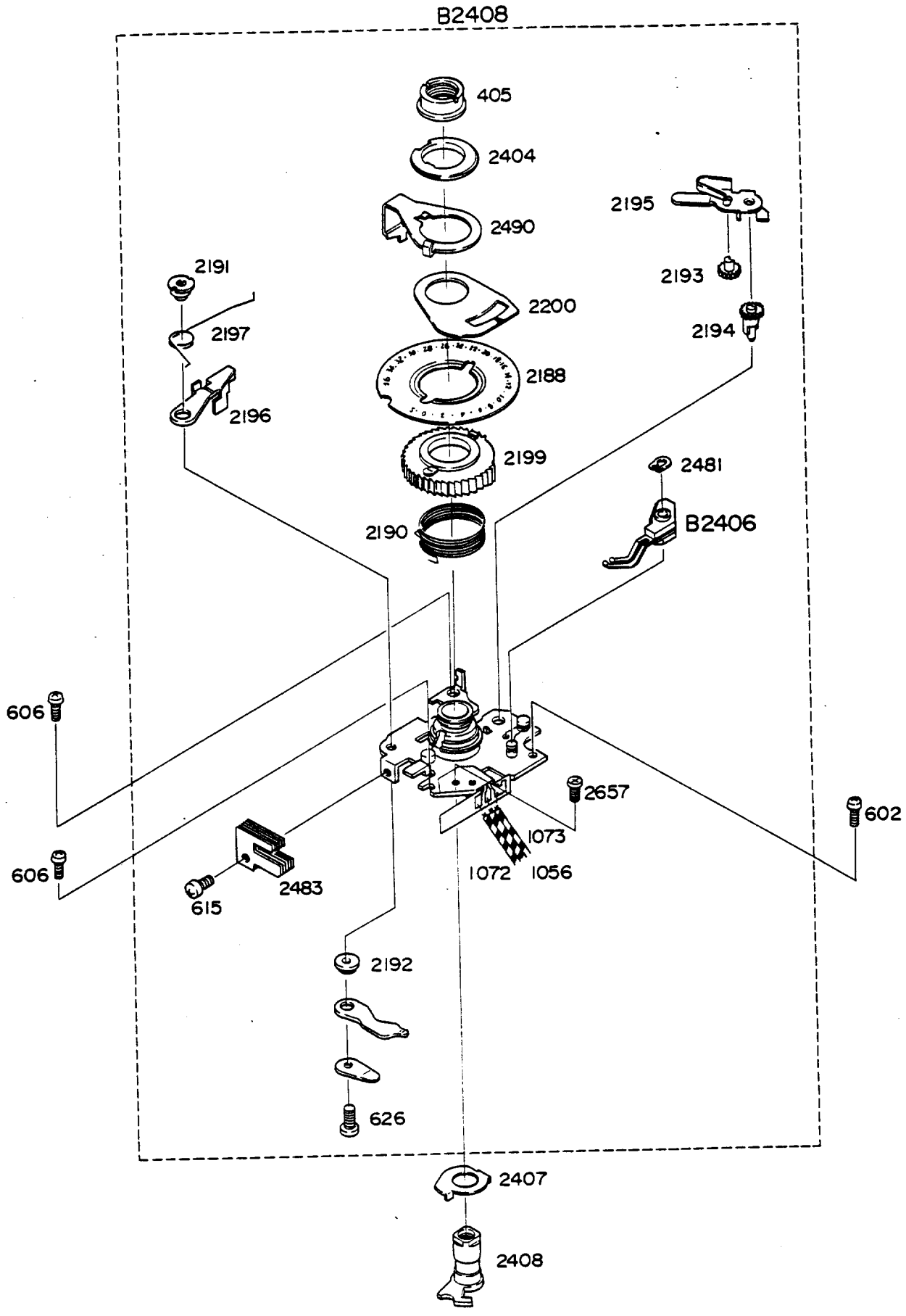
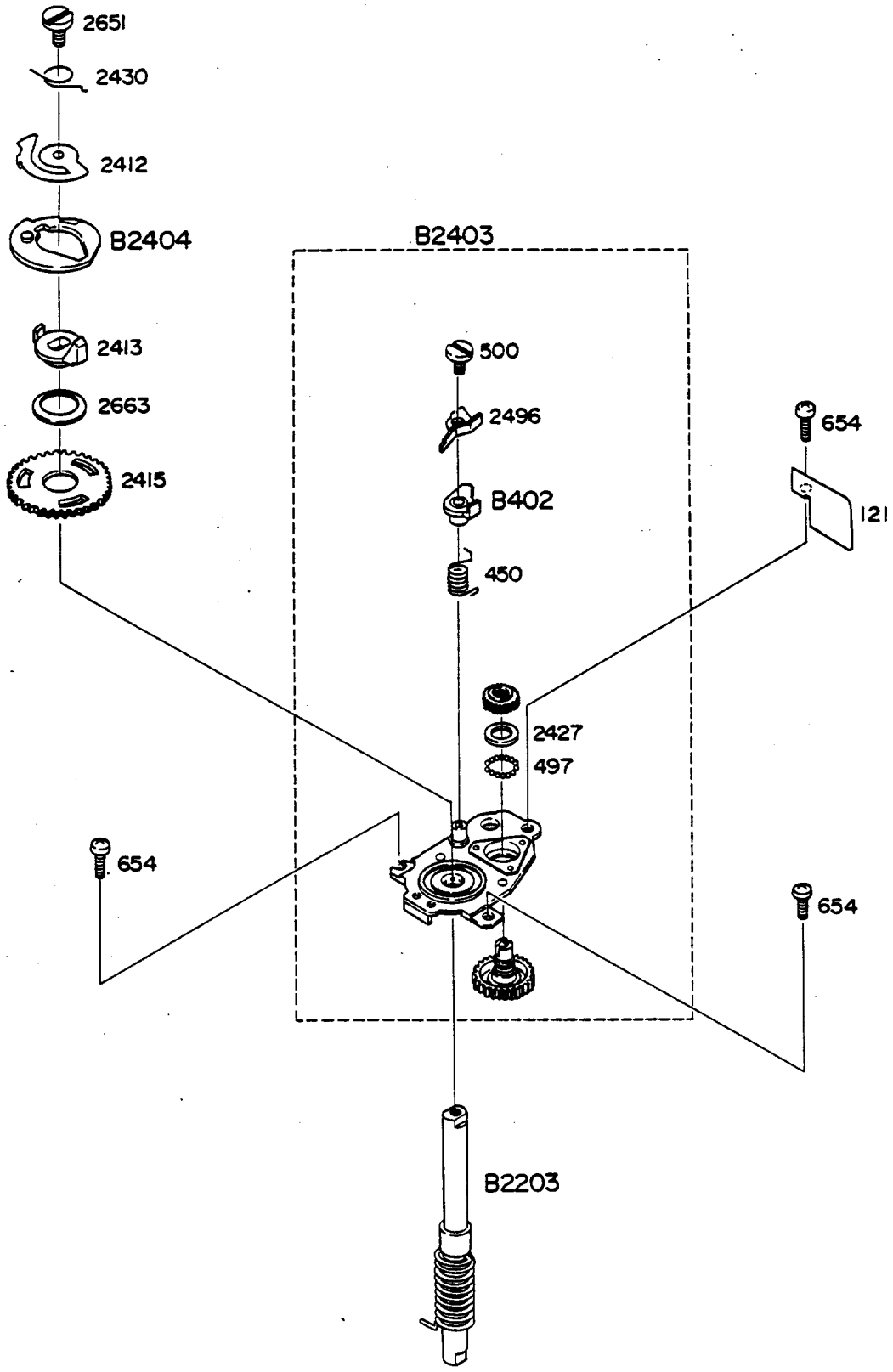

B2408
405
2404
2490
2200
2188
2199
2190
2191
2197
2196
2195
2193
2194
2481
B2406
606
606
615
2483
2657
1073
1072
1056
602
2192
626
2407
2408

Fig. 2

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 405 | 1K150-008 | レバー軸ナット<br>Nut, film-advance lever shaft | 2483 | 1K610-275 | クリックレバーバネ<br>G-snap ring |
| 602A | A1-17030FA | Screw | 2490 | 1K610-277-1 | 多重撮り連結レバー<br>Multi-exposure lever |
| 602B | A1-17030FC | Screw (black) | 2657 | 1K001-012 | クリックレバービス<br>Screw |
| 606 | A1-20030FB | Screw | | | |
| 615 | 1K123-051 | Screw | | | |
| 626 | B1-20050FA | Screw | | | |
| 1056 | 1S810-060 | Lead wire (purple) | | | |
| 1072 | 1S810-102 | Lead wire (red) | | | |
| 1073 | 1S810-103 | Lead wire (orange) | B2406 | 1B001-131 | 上地スイッチ<br>Lever switch |
| 2188 | 1K470-011 | 枚数計<br>Frame-counter dial | B2408 | 1B060-034-4 | 上地板<br>Unit, film-advance lever |
| 2190 | 1K230-076 | カウンターバネ<br>Counter spring | B2408 | 1B060-167-3 | * NEW TYPE<br>Unit, film-advance lever |
| 2191 | 1K150-017 | 零戻しレバーナット<br>Nut, frame counter reverse lever | | | |
| 2192 | 1K330-007 | クリックレバーカラー<br>Click lever collar, unit B2408 | | | |
| 2193 | 1K260-049 | 送り爪ギア<br>Advance claw gear | | | |
| 2194 | 1K260-050 | 送り爪レバー<br>Claw ~~spring~~ | | | |
| 2195 | 1K610-267-1 | 送り爪バネ<br>Advance claw coupling gear | | | |
| 2196 | 1K314-105 | 零戻しレバー<br>Frame counter reset lever | | | |
| 2197 | 1K230-077 | 零戻しレバー戻しバネ軸<br>Counter reset lever axle | | | |
| 2199 | 1K275-009-1 | ラチェット<br>Ratchet, unit B2408 | | | |
| 2200 | 1K480-005 | 指標板<br>Frame counter index | | | |
| 2404 | 1K640-253 | 枚数計押え板<br>Frame counter retainer | | | |
| 2407 | 1K610-270 | スプロ制限除板<br>Sprocket stopper release plate | | | |
| 2408 | 1K680-169 | 巻上軸<br>Film-advance shaft | | | |
| 2481 | 1K060-013-1 | クリップリング<br>G-snap ring | | | |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B2404
2413
2663
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B2403
500
2496
B402
450
2427
497
654
121
654
654
B2203

Fig. 3

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 121 | 1K610-281 | 曲げ板<br>Plate | B2203 | 1B001-132-1 | スプール軸<br>Spool shaft |
| 450 | 1K230-041 | スプロストッパーバネ<br>Spring, sprocket stopper reverse | B2403 | 1B001-129-2 | 下地板<br>Unit, film-advance mechanism |
| 497 | 1K078-006 | 鋼球<br>Steel ball | B2404 | 1B001-130-1 | 面カム<br>Clutch cam |
| 500 | 1K120-054 | スプロストッパービス<br>Sprocket stopper screw | | | |
| 654 | 1K120-063 | 下地板ビスB<br>Screw, lower unit base B2403 | | | |
| 2412 | 1K610-271 | 面カム板バネ<br>Clutch cam spring | | | |
| 2413 | 1K680-170 | 巻上カム<br>Film-advance cam | | | |
| 2415 | 1K260-052 | 巻上ギア<br>Film-advance gear | | | |
| 2427 | 1K050-072 | アイドルギアAワッシャー<br>Washer, idle gear A | | | |
| 2430 | 1K230-078 | 面カムねじりバネ<br>Clutch spring DIS. | | | |
| 2496 | 1K610-278 | 巻上ギア<br>Film-advance gear | | | |
| 2651 | 1K130-099 | 巻上軸ビス<br>Film-advance shaft screw | | | |
| 2663 | 1K050-075 | 巻上ギアワッシャー<br>Washer, wind gear | | | |
| 2663 | 1K050-076 | 巻上ギアワッシャー<br>Washer. wind gear | | | |
| 2663 | 1K050-077 | 巻上ギアワッシャー<br>Washer, wind gear | | | |
| 2663 | 1K050-078 | 巻上ギアワッシャー<br>Washer, wind gear | | | |
| 2663 | 1K050-079 | 巻上ギアワッシャー<br>Washer, wind gear | | | |
| 2663 | 1K050-080 | 巻上ギアワッシャー<br>Washer, wind gear | | | |
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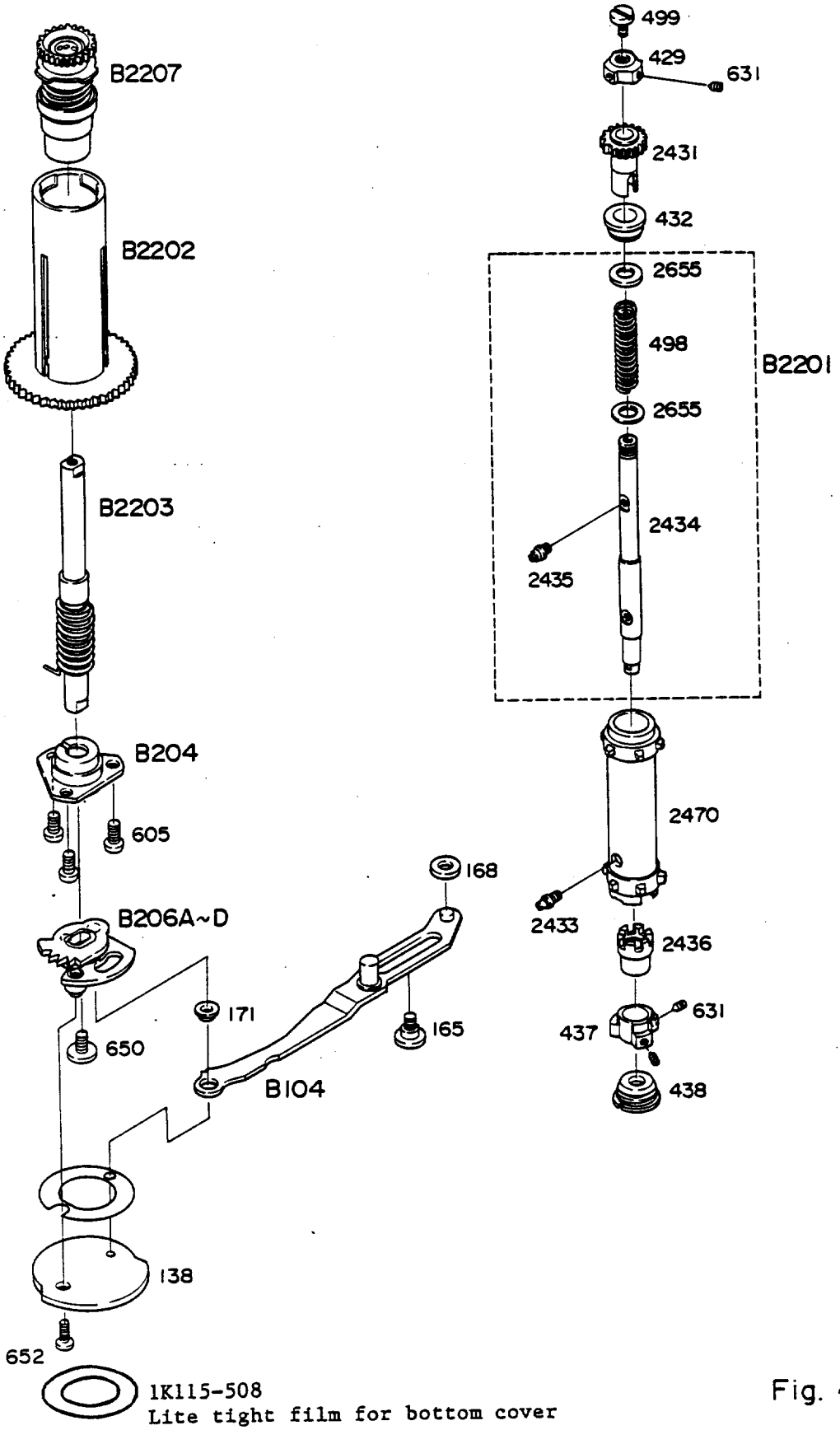
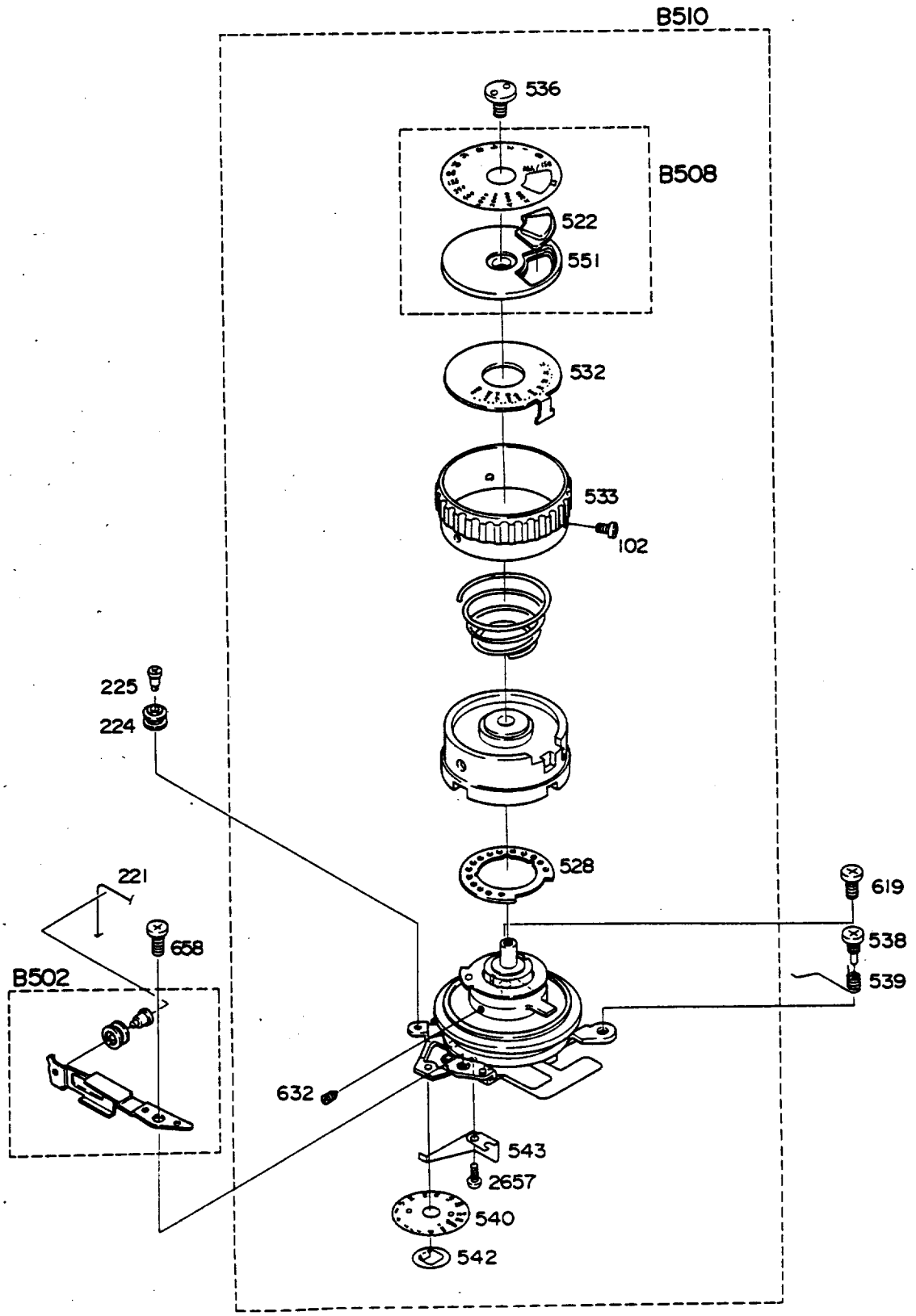
# Film-advance shaft • Sprocket




1K115-508
Lite tight film for bottom cover

Fig. 4

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 138 | 1K680-102-1 | モーターカップリング<br>Motor coupling | 29 | 1K115-312 | ポリエステルフイルム<br>Polye film |
| 165 | 1K130-056-1 | チャージレバービス<br>Screw, shutter charge lever | | | |
| 168 | 1K340-019 | チャージレバーカラー<br>Charge lever collar | | | |
| 171 | 1K340-020 | セットカムカラー<br>Set cam collar | | | |
| 429 | 1K300-034 | スプロケット制限カム<br>Sprocket stopper cam | | | |
| 432 | 1K640-198 | スプロ軸受<br>Sprocket shaft bearing | B104 | 1B314-051-2<br>1B314-051 | チャージレバー<br>Shutter charge lever |
| 437 | 1K630-085 | スプロカラーAナット<br>Sprocket collar A nut | B204 | 1B340-001-2 | スプール軸受ケース<br>Spool shaft bearing case |
| 438 | 1K640-199 | スプロト軸受<br>Sprocket shaft lower bearing | B206A | 1B300-007-X6 | セットカムA<br>Set cam A |
| 498 | 1K220-039 | スプロケットバネ<br>Sprocket spring | B206B | 1B300-008-2 | セットカムB<br>Set cam B |
| 499 | 1K120-053 | スプロケット左ネジ<br>Sprocket screw (left-thread) | B206C | 1B300-009-X7 | セットカムC<br>Set cam C |
| 605 | A1-20022FB | Screw | B206D | 1B300-010-X8 | セットカムD<br>Set cam D |
| 631 | K2-14015FA | Set screw | B2201 | 1B001-127 | スプロケット軸<br>Sprocket axle |
| 650 | 1K120-060 | 巻上軸ビス<br>Film-advance shaft screw (left-thread) | B2202 | 1B630-009 | スプール<br>Spool |
| 652 | 1K120-061 | カップリングビス<br>Coupling screw | B2203 | 1B001-132-1 | スプール軸<br>Spool shaft |
| 2431 | 1K260-056 | スプロ上ギア<br>Sprocket upper gear | B2207 | 1B001-128-2 | スプール上ギア<br>Spool top gear |
| 2433 | 1K130-096 | スプロケットビス<br>Sprocket screw | | | |
| 2434 | 1K370-367 | スプロケット軸<br>Sprocket shaft | | | |
| 2435 | 1K130-097 | スプロケットビス<br>Sprocket screw | | | |
| 2436 | 1K630-114 | スプロケットローラーA<br>Sprocket roller A | | | |
| 2470 | 1K275-010 | 特殊歯車<br>~~Gear~~ Sprocket | | | |
| 2655 | 1K050-074 | スプロケットバネ受座金<br>Washer, sprocket spring | | | |
| | | | | | |
| | | | | | |
| | | | | | |


B510
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B508
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551
532
533
102
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224
221
658
B502
528
619
538
539
632
543
2657
540
542

Fig. 5

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 102 | 1K010-017-2 | タップタイトビス<br>Screw | B502 | 1B001-106-1 | コロバネ<br>Roller spring |
| 221 | 1K115-201 | 連動ひも<br>Spring, aperture coupling | B508 | 1B470-001 | シャッター目盛<br>Shutter speeds disk x200 |
| 224 | 1K640-209-1 | ひもかけコロ<br>Roller, aperture coupling string | B510 | 1B060-026-X5 | 管制部 FRE<br>Shutter control unit |
| 225 | 1K130-072 | ヒモカケコロビス<br>Screw, roller #224 | B508 | 1B470-005 | New shutter speed disk (x250) |
| 522 | 1K625-011 | シャッター目盛板<br>Shutter dial index | | 1B060-159-3 | New shutter control unit (x250) |
| 528 | 1K160-195-1 | クリック座金<br>Disk, shutter dial click | | | |
| 532 | 1K470-003 | ASA目盛環<br>ASA calibration disk | | | |
| 533 | 1K201-012 | シャッターダイヤル環<br>Shutter dial | | | |
| 536 | 1K120-055 | ダイアル上面ビス<br>Screw, shutter dial | | | |
| 538 | 1K130-065 | 管制部ビス<br>Screw, shutter control unit | | | |
| 539 | 1K230-046-1 | アースばね<br>Earth spring, shutter control unit | | | |
| 540 | 1K470-005-1 | Tフィルム<br>Shutter speeds inner indicator | | | |
| 542 | 1K248-003 | Tフィルム押え<br>Retainer, shutter speeds inner indicator | | | |
| 543 | 1K240-071-2 | クリックばね<br>Click spring | | | |
| 551 | 1K640-207 | シャッター目盛基板<br>Base, shutter speeds calibration disk | | | |
| 619 | B1-17035FA | Screw | | | |
| 632 | K2-14025FA | Screw | | | |
| 658 | B1-20030FB | Screw | | | |
| 2657 | 1K001-012 | Screw | | | |
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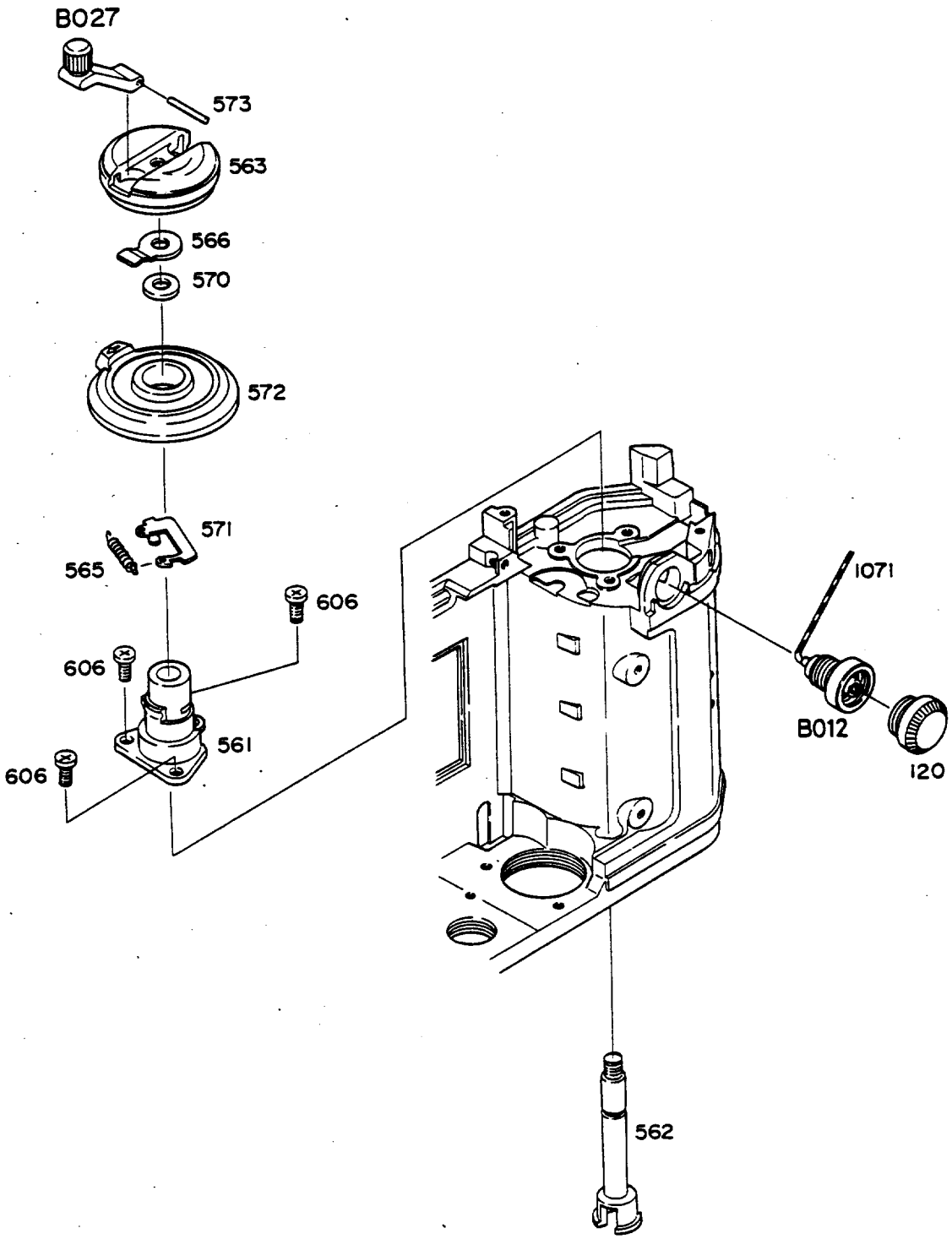
B027
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Fig. 6

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 120 | 1K467-016 | ターミナルキャップ Terminal cap | B012 | 1B400-001-1 | シンクロターミナル Synch terminal |
| 561 | 1K333-003 | 巻戻し軸受け Rewing shaft bearing | B027 | 1B314-049 | 巻戻しレバー Rewind crank |
| 562 | 1K370-239 | 巻戻し軸 Rewind shaft | | | |
| 563 | 1K201-013 | 巻戻しノブ Rewind knob | | | |
| 565 | 1K225-045 | 巻戻軸受板用バネ Spring, rewind shaft acceptor | | | |
| 566 | 1K240-064-1 | レバー受けバネ Rewind crank spring | | | |
| 570 | 1K050-023 | 平座金 Washer | | | |
| 571 | 1K610-195 | ロックレバー Lock lever, rewind shaft | | | |
| 573 | P1-10080SX | Pin | | | |
| 606 | A1-20030FB | Screw | | | |
| 1071 | 1S810-072 | Lead wire (blue) | | | |
| 572 | 1K485-036 | 開閉ノブ Camera back knob | | | |
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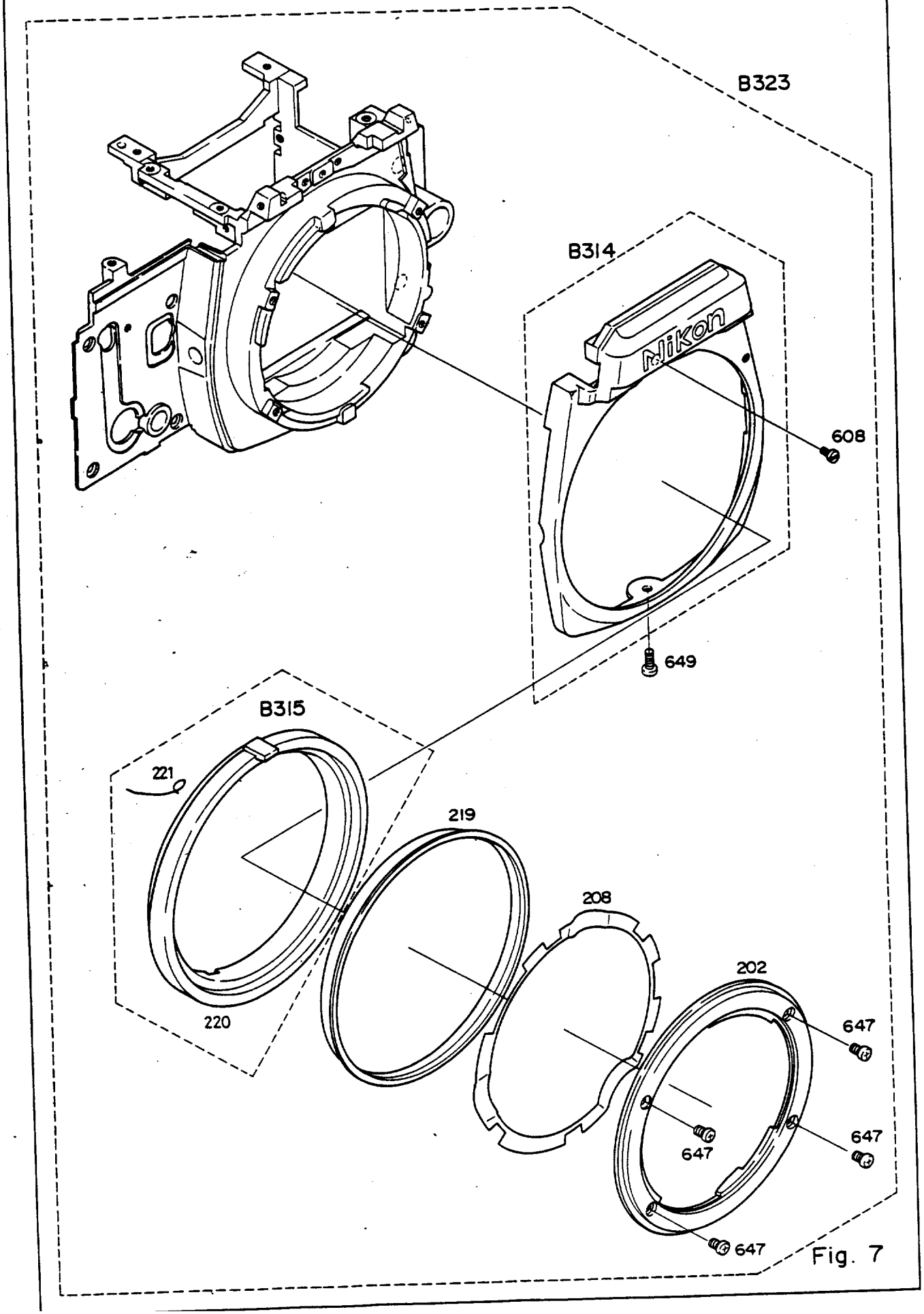
B323
B314
Nikon
608
649
B315
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219
208
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647

Fig. 7

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 202 | 1K404-030 | バヨネット環 Bayonet | B314A | 1B100-069-1 | 前カバー銘板 Front cover |
| 208 | 1K240-065-1 | バヨネットバネ Baynet spring | B314B | 1B100-072-1 | 前カバー銘板 Front cover (black) |
| 219 | 1K640-261 | 丸 環 Ring | B315 | 1B640-011-1 | 連動環 Coupling ring |
| 220 | 1K640-208-1 | 連動環 Coupling ring | B323A | 1B660-005-7 | 前 板 Front plate unit |
| 608A | A1-17022FC | Screw | B323B | ~~1B660-006-7~~ 1B660-010 | 前 板 Front plate unit (black) |
| 608B | A1-17022FT | Screw (Black) | | | |
| 647 | 1K123-039 | バヨネット止めビス Screw, bayonet | | | |
| 649A | 1K120-092 | Screw | | | |
| 649B | 1K120-064 | 前カムビス Screw, front cover (black) | | | |
| 221 | 1K115-201 | 連動ひも String, aperture coupling | | | |
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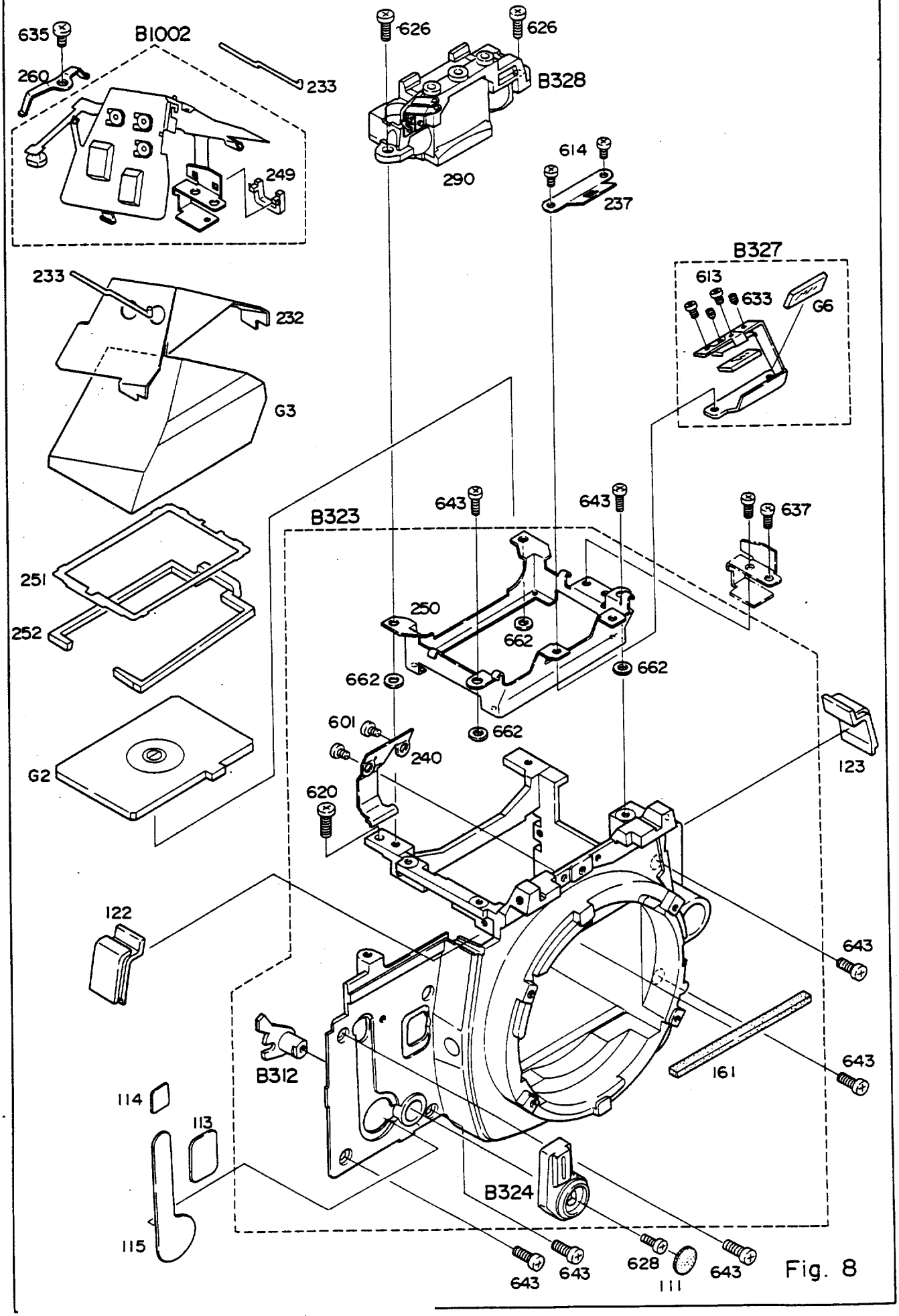
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B1002
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B328
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B327
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G6
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G3
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B323
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252
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G2
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B312
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B324
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111
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Fig. 8

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 111 | 1K115-183 | セルフ皮<br>Leatherette, self-timer | 633 | K2-14025FB | Set screw |
| 113 | 1K600-089 | 前板孔カバーA<br>Cover A, front plate | 635 | E1-20028FB | Screw |
| 114 | 1K600-090-1 | 前板孔カバーB<br>Cover B, front plate | 637 | B1-17020FB | Screw |
| 115 | 1K600-091 | 前板孔カバーC<br>Cover C, front plate | 643 | 1K123-042 | 前板取付ビス<br>Screw, front plate |
| 122 | 1K680-099 | 前板右肩カバー<br>Shoulder block, front plate (rewind-side) | 662 | 1K050-029～048 | 調整座金<br>Spacer |
| 123 | 1K680-100 | 前板左肩カバー<br>Shoulder block, front | | | |
| 161 | 1K115-191-1 | ミラーアップ受けモルト<br>Sponge strip, mirror | G2 | 1G950-001 | フレネルKタイプ<br>Focusing screen K |
| 232 | 1K115-202 | プリズム押えシート<br>Retainer, prism | G3 | 1G415-XXX 007 | プリズム<br>Pentagonal prism |
| 233 | 1K233-016-1 | プリズム押えバネ<br>Prism retainer spring | G6 | 1G550-008-1 | 反射ミラー<br>ADR mirror |
| 237 | 1K610-203 | 枠板<br>ADR mask | | | |
| | | | | | |
| 240 | 1K240-067 | スクリーンロックばね<br>Spring, focusing screen lock | B312 | 1B310-019 | セルフレバー軸<br>Self-timer lever axle |
| 249 | 1K680-124 | プリント板押え<br>Circuit board retainer | B323A | 1B660-XXXXX 009 | 前板<br>Front plate unit |
| 250 | 1K620-033 | プリズムボックス<br>Prism box | B324 | 1B206-003 | セルフレバー<br>Self-timer lever |
| 251 | 1K576-025-1 | 視野枠<br>Finder field frame | B327 | 1B100-070-1 | ミラー保護基板<br>ADR mirror holder |
| 252 | 1K680-112-1 | 中間枠<br>Spacer, screen frame | B328 | 1B100-071 | 接眼モールドメガネ<br>Eyepiece mold |
| 260 | 1K240-074 | SPDプリント板押え<br>SPD circuit board retainer | B1002 | 1B060-027-X 3 | IC プリント板<br>IC circuit board |
| 290 | 1K010-018 | 接点ビス<br>Screw | B323B | 1B660-XXXXX 010 | 前板<br>Front plate unit (black) |
| 601 | A1-17015FB | Screw | | | |
| 613 | B1-14015FB | Screw | | | |
| 614 | B1-14020FB | Screw | | | |
| 620 | B1-17040FA | Screw | | | |
| 626 | B1-20050FA | Screw | | | |
| 628 | 1K123-038 | セルフビス<br>Screw, self-timer | | | |

# 前板部 (1) Front plate

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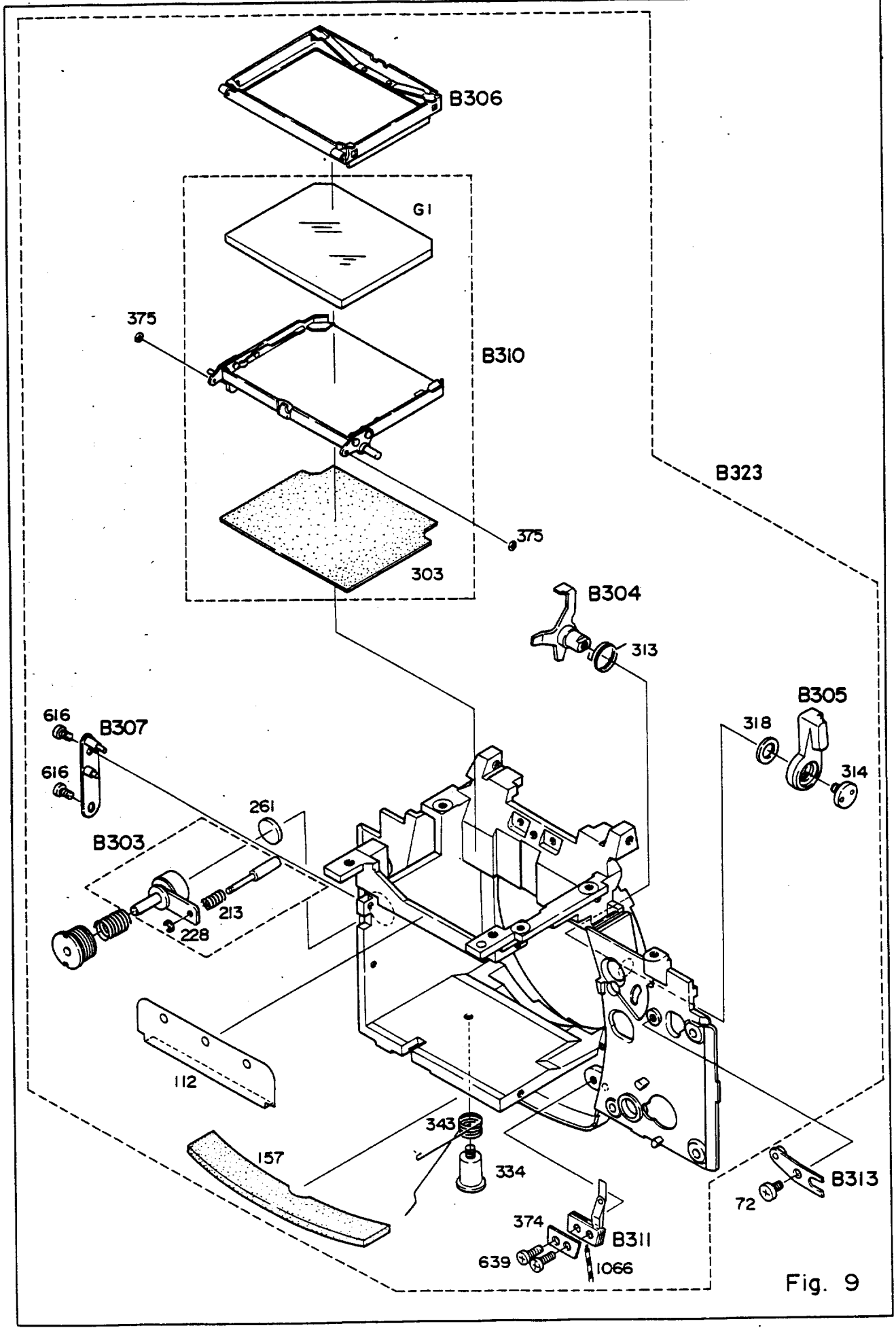


Fig. 9

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 72 | 1K130-053 | プリント板ビス<br>Screw, circuit board B2102 | B303 | 1B001-098-1 | 着脱釦<br>Lens release button |
| 112 | 1K610-170 | 遮光板<br>Light-tight | B304 | 1B314-052-1 | 手動絞りレバー<br>Manual stop-down lever |
| 157 | 1K115-187 | 上蓋用モルトフレン<br>Light-tight | B305 | 1B206-002-1 | 絞り込みレバー<br>Stop-down lever |
| 213 | 1K220-041 | 着脱ピン押えバネ<br>Lens release spring | B306 | 1B001-099-1 | スクリーン枠<br>Focusing screen frame |
| | | | B307 | 1B001-100 | 軸基板<br>Mirror axle base unit |
| | | | B310 | 1B100-068-4 | チリトリ<br>Mirro holder |
| 228 | 1K060-003 | E-リング<br>E-ring | B311 | 1B060-022-2 | スイッチ接片<br>Shutter switch |
| 261 | 1K115-203 | レンズ着脱釦飾り<br>Cover, lens release button | B313 | 1B310-020 | レリーズ調整レバー<br>Release adjusting lever |
| 303 | 1K115-220 | 植毛紙<br>Baffle cloth | B323A | ~~1B660-005-8~~<br>1B660-009 | 前板<br>Front plate |
| 313 | 1K230-028 | 手動絞りレバーばね<br>Stop-down lever spring | B323A | 1B660-006-8 | 前板<br>Front plate (black) |
| 314 | 1K120-051 | 絞りレバービス<br>Screw, aperture lever | | | |
| 318 | 1K050-019 | 手動絞りレバー座<br>Base, stop-down lever | | | |
| 334 | 1K130-058 | ばねビス<br>Screw, mirror down spring | | | |
| 343 | 1K230-031-2 | ダウンレバーバネ<br>Mirror down spring | | | |
| 374 | 1K600-099 | シャッタースイッチ押え板<br>Shutter switch retainer | | | |
| 375 | 1K050-022 | Washer | | | |
| 616 | B1-17022FB | Screw | | | |
| 639 | 1K120-057 | ミラースイッチ止めビス<br>Screw, mirror switch | | | |
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| G1 | 1G551-004-1 | ミラー<br>Mirror | | | |
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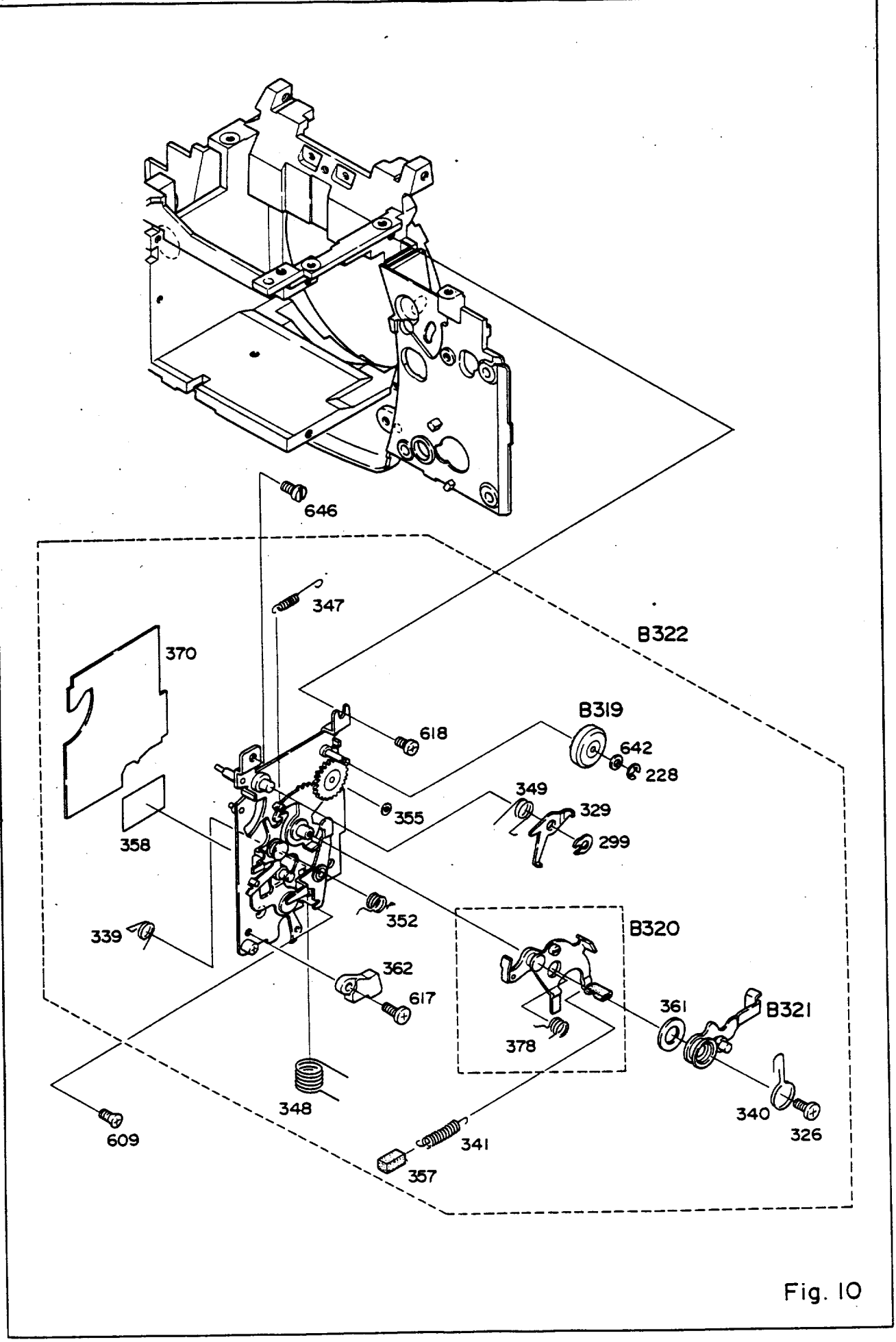
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Fig. 10

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番品 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 228 | 1K060-003 | E-snap ring | B320 | 1B314-053-2 | ミラーアップレバー Mirror-up lever |
| 299 | 1K060-004 | G-snap ring | B321 | 1B314-054-1 | 絞りレバー Aperture lever |
| 326 | 1K120-052 | Screw | B322 | 1B001-102-6 1B001-222-6 | 横基板 Mirror box mechanism |
| 329 | 1K314-064-1 | ミラーアップ押えレバー Mirror-up stop lever | B319 | 1B260-002-1 | 平歯車 Gear |
| 339 | 1K230-029 | 45°ストッパーバネ 45° stopper spring | | | |
| 340 | 1K230-030-1 | 絞りレバーバネ Aperture lever spring | | | |
| 341 | 1K225-043-1 | アップバネ Spring, mirror-up lever | | | |
| 347 | 1K225-044-2 | 慣性体バネ Spring, mirror mechanism gear | | | |
| 348 | 1K230-032 | レリーズレバーバネ Release lever spring | | | |
| 349 | 1K230-033-1 | ミラーアップ押えバネ Spring, mirror-up stop lever | | | |
| 352 | 1K230-034 | 係止レバーバネ Spring, latch lever | | | |
| 355 | 1K050-050 | Washer | | | |
| 358 | 1K600-096 | 横基板カバー Cover, mirror box mechanism | | | |
| 357 | 1K115-196 | 防しんモルト Sponge strip | | | |
| 362 | 1K680-106 | ダウンレバーかんしょう板 Shock absorber, mirror-down lever | | | |
| 370 | 1K115-197 | 植毛紙 Baffle cloth | | | |
| 361 | 1K050-020 | Washer | | | |
| 378 | 1K230-035 | チリ取りバネ Spring, mirror-up lever | | | |
| 609 | A2-17025FB | Screw | | | |
| 617 | B1-17025FA | Screw | | | |
| 618 | B1-17025FB | Screw | | | |
| 642 | 1K050-024 | Washer | | | |
| 646 | 1K130-067 | 側面基板止めビス Screw, mirror mechanism unit | | | |
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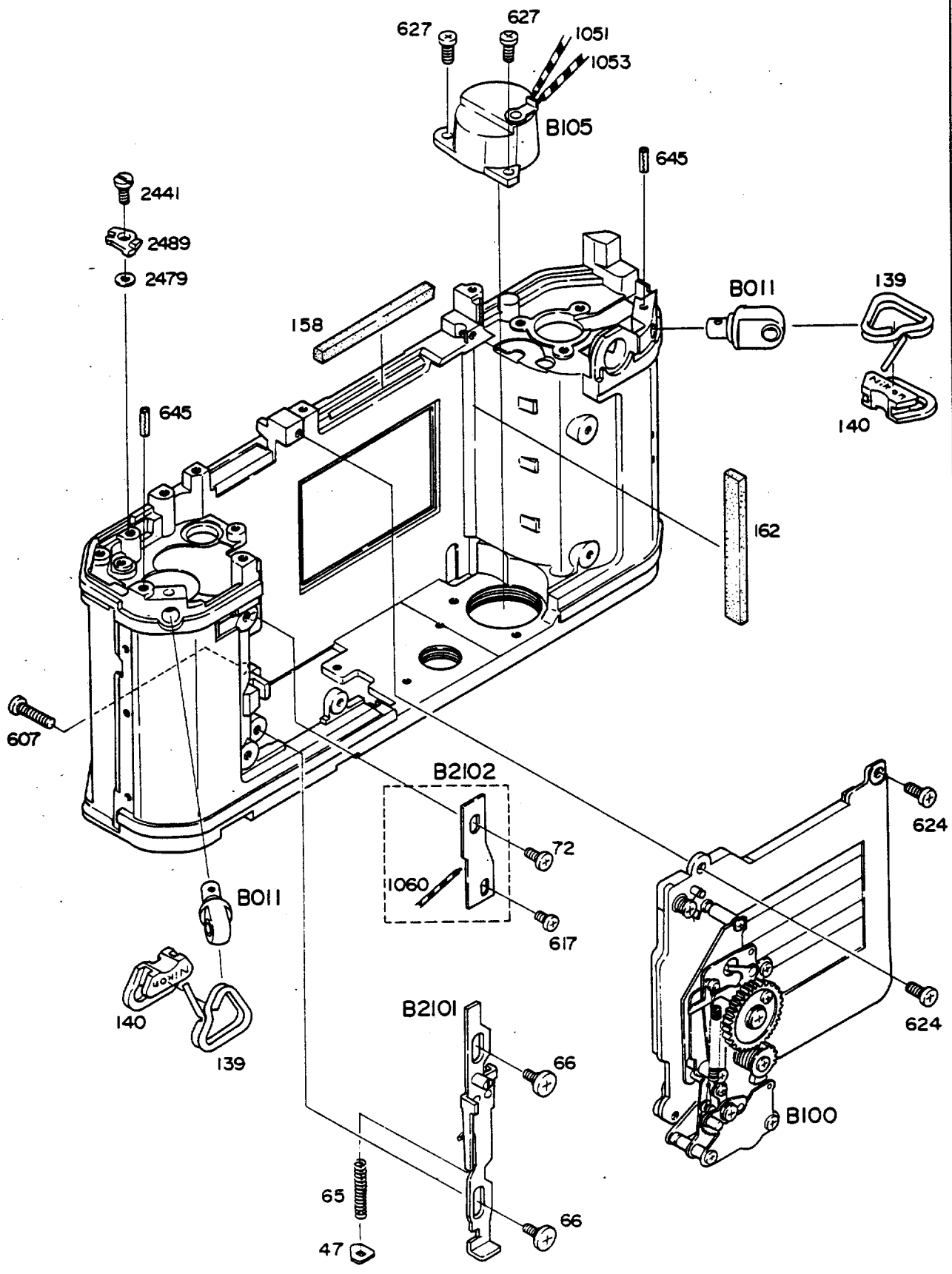
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Fig. 11

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 47 | 1K600-130 | 制限コマ<br>Retainer, spring #65 | B011 | 1B001-085 | 耳環<br>Eyelet |
| 65 | 1K220-037-1 | レリーズ板バネ<br>Spring, release plate | B100 | 1B001-090-2 | シャッター<br>Shutter |
| 66 | 1K130-052 | レリーズ板ビス<br>Screw, release plate | B105 | 1B060-021 | 電池ケース<br>Battery chamber |
| 72 | 1K130-053 | プリント板ビス<br>Screw, circuit board B2102 | B2101 | 1B314-056-Ⅹ4 | レリーズ板<br>Release plate |
| 139 | 1K100-035 | 三角環<br>Neckstrap ring | B2102 | 1S007-010 | 半押しプリント板<br>Circuit board, meter switch |
| 140 | 1K080-005 | 銘板<br>Neckstrap protector | | | |
| 158 | 1K115-188 | 接眼下部遮光モルト<br>Light-tight, eyepiece | | | |
| 162 | 1K115-192 | シャッター上遮光モルト<br>Sponge strip, eyepiece | | | |
| 607 | A1-20070FT | Screw | | | |
| 617 | B1-17025FA | Screw | | | |
| 624 | A1-20030BX | Screw | | | |
| 627 | B1-20045FB | Screw | | | |
| 645 | 1K044-003 | スプリングピン<br>Spring pin | | | |
| 1051 | 1S810-055 | Lead wire (Red) | | | |
| 1053 | 1S810-057 | Lead wire (Red) | | | |
| 1060 | 1S810-064 | Lead wire (Red) | | | |
| 2441 | 1K130-098 | 面カム外しレバー軸<br>Clutch cam release lever axle | | | |
| 2479 | 1K050-073 | 面カム外しレバー座金<br>Washer, axle #2441 | | | |
| 2489 | 1K680-172-1 | 三羽根爪外しレバー<br>Coupling lever, multi-exposure | | | |
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# ボディ底部 Bottom cover

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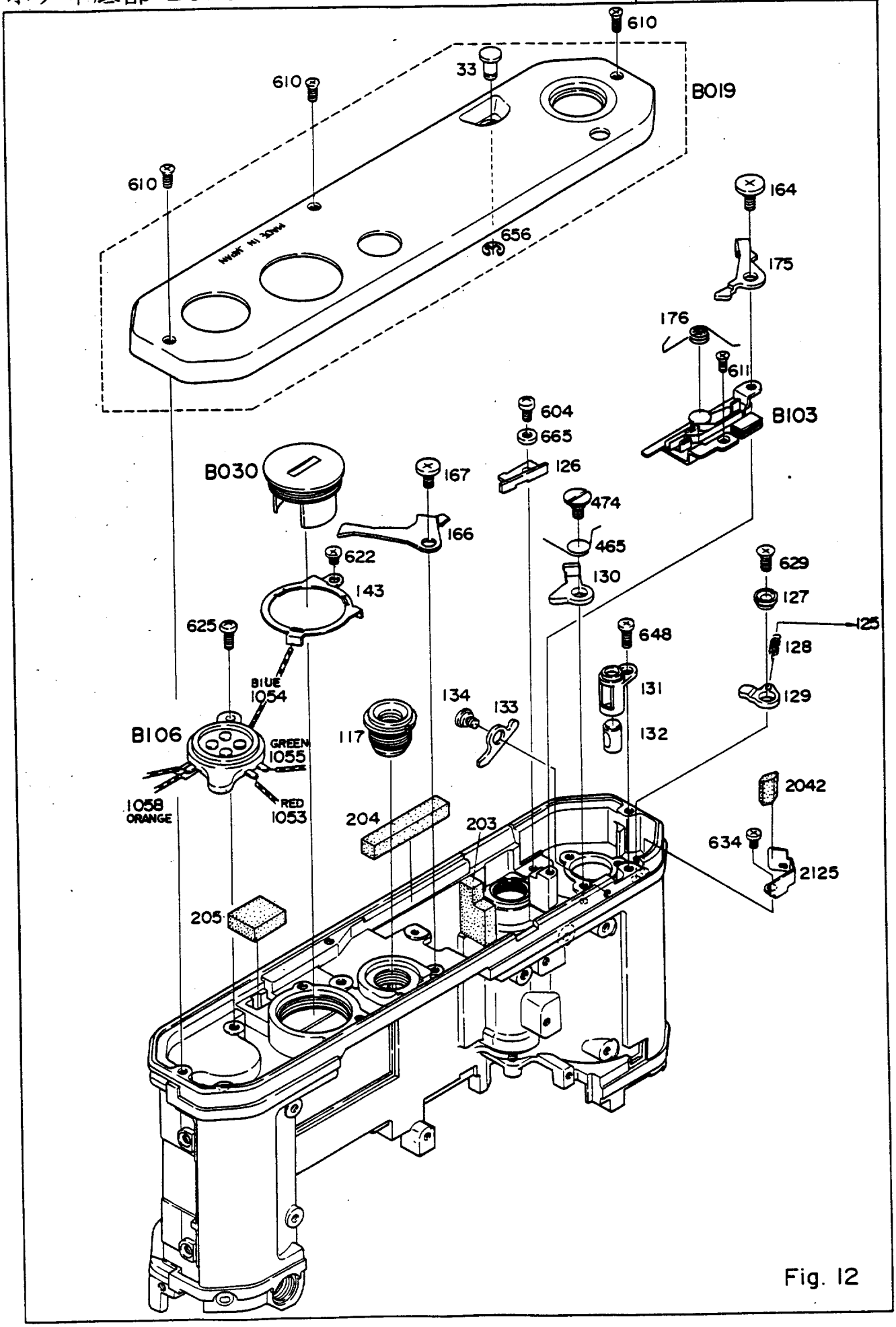


Fig. 12

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 33 | 1K370-189 | 巻戻釦<br>Rewind button | 610A | A2-17025FC | Screw |
| 117 | 1K400-078 | 三脚座<br>Tripod socket | 610B | 1K001-006 | Screw (black) |
| 126 | 1K610-172 | ARレバー<br>AR lever | 611 | A2-17030FB | Screw |
| 127 | 1K650-003 | 振り子偏心軸<br>Pendulum eccentric axle | 622 | B1-20025FA | Screw |
| 128 | 1K225-042-1 | 振り子ばね<br>Pendulum spring | 625 | B1-20040FB | Screw |
| 129 | 1K314-051-1<br>-2 | 振り子<br>Pendulum | 629 | B2-20045FA | Screw |
| 130 | 1K314-052-1 | ロックレバー<br>Lock-lever, MD see-saw lever | 634 | A1-17018FB | Screw |
| 131 | 1K340-018 | MD軸受け<br>MD shaft bearing | 648 | 1K123-040 | ビス<br>Screw, MD shaft holder |
| 132 | 1K370-196 | MD軸<br>MD shaft | 656 | 1K060-005-1 | E-snap ring |
| 133 | 1K600-092 | MDシーソーレバー<br>MD see-saw lever | 1053 | 1S810-057 | Lead wire (red) |
| 134 | 1K130-054 | MDシーソーレバー軸<br>Axle, MD see-saw lever | 1054 | 1S810-058 | Lead wire (blue) |
| | | | 1055 | 1S810-059 | Lead wire (green) |
| 143 | 1K610-173 | 電池アース<br>Battery chamber earth contact | 1058 | 1S810-062 | Lead wire (white) |
| 164 | 1K130-055 | 二重巻上防止ビス<br>Screw, lever #175 | 2042 | 1K110-082 | 緩衝ゴムA<br>Shock absorber A |
| 166 | 1K314-053-2 | ミラーチャージレバー<br>Mirror charge lever | 2125 | 1K610-266-1 | 緩衝板<br>Shock absorber |
| 167 | 1K130-057 | ミラーチャージレバービス<br>Screw, mirror charge lever | 665 | 1K050-039 | Spacer |
| 175 | 1K314-056 | 二重巻上防止レバー<br>Lever, double-exposure preventing | | | |
| 176 | 1K230-025-1 | 二重巻上防止バネ<br>Spring, double-exposure preventing | B030 | 1B467-007-1 | 電池キャップ<br>Battery chamber lid |
| 203 | 1K115-355 | モルトプレン<br>Light-tight | B103 | 1B001-091-2 | MDスイッチ基板<br>MD switch circuit board |
| 204 | 1K115-356 | モルトプレン<br>Light-tight | B019A | 1B620-008-~~X~~ | 底蓋<br>Bottom cover (~~black~~) |
| 205 | 1K115-357 | モルトプレン<br>Light-tight | B019B | 1B620-010-1 | 底蓋<br>Bottom cover (black) |
| 465 | 1K230-043 | ロックレバーバネ<br>Lock lever spring | B106 | 1B001-092 | 外部接点<br>MD external contact |
| 474 | 1K130-063 | ロックレバー軸<br>Lock lever axle | | | |
| 604 | A1-20025FB | Screw | | | |

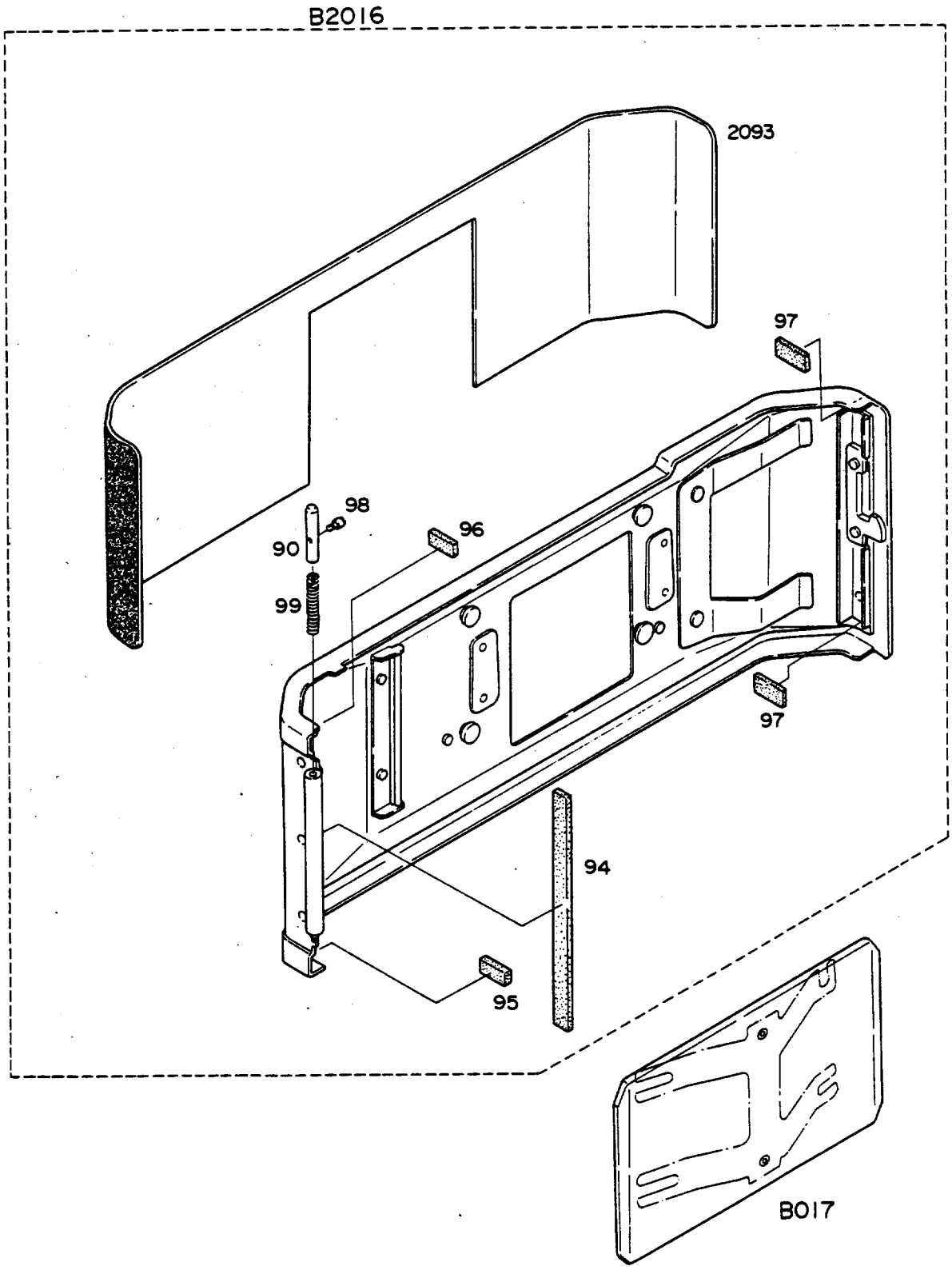


Fig. 13

| 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name | 補助番号 Ckt.No. | 部品番号 Part No. | 名称 Name |
|---|---|---|---|---|---|
| 90 | 1K362-007-1 | 蝶番心金B<br>Hinge shaft B | B017 | 1B001-086-1 | 圧板<br>Pressure plate |
| 94 | 1K115-154 | モルトプレン<br>Light-tight | B2016 | 1B620-014-2 | 裏蓋本体<br>Camera back |
| 95 | 1K115-155 | モルトプレン<br>Light-tight | | | |
| 96 | 1K115-156 | モルトプレン<br>Light-tight | | | |
| 97 | 1K115-157 | モルトプレン<br>Light-tight | | | |
| 98 | 1K123-034 | 裏蓋着脱ピン<br>Camera back release pin | | | |
| 99 | 1K220-031 | 裏蓋着脱バネ<br>Cameral back release spring | | | |
| 2093 | 1K115-301 | 擬革<br>Leatherette | | | |
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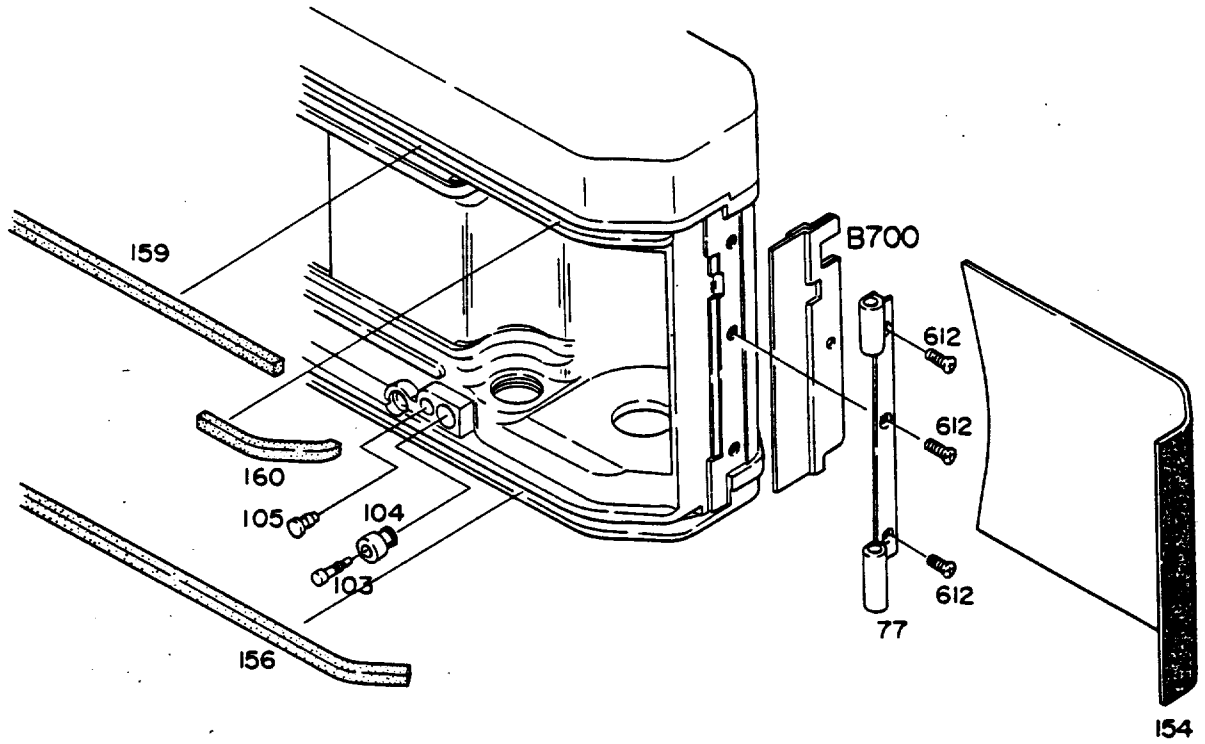
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160
105
104
103
156
B700
612
612
612
77
154

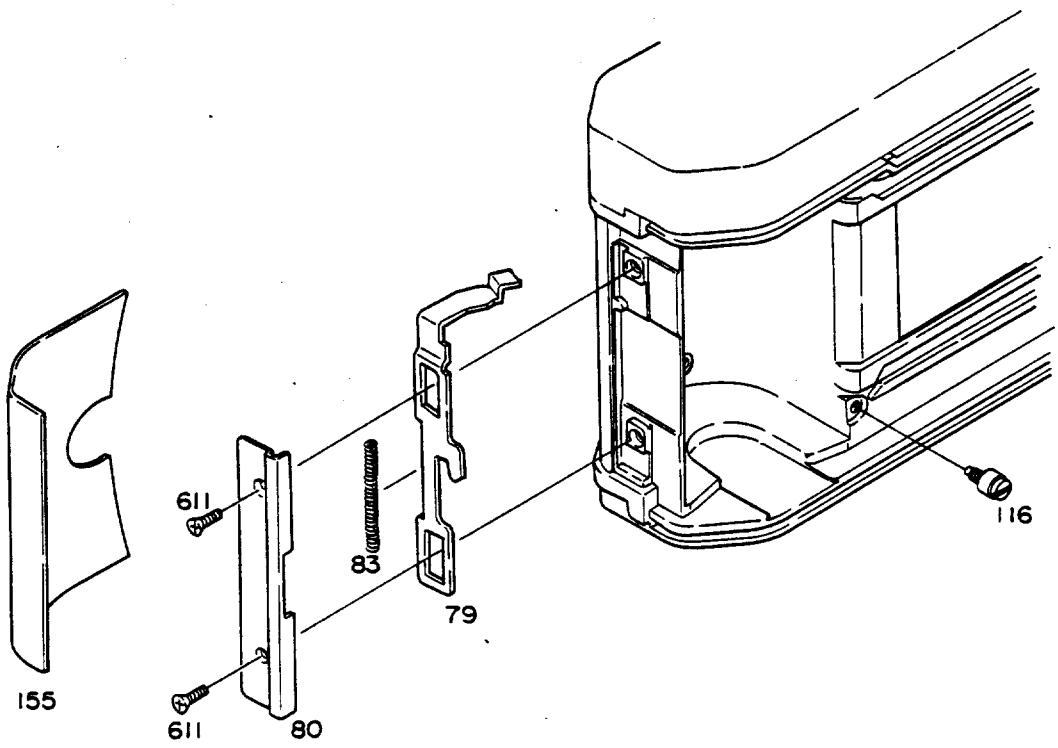
611
611
155
80
83
79
116

Fig. 14

# PARTS LIST

Contents Page

[1] PARTS LIST ..... P1

[2] ASSEMBLY LIST ..... P32

Marks in the Parts List

[1] PARTS LIST FM2n ..... 1-6

[1] PARTS LIST FM2/T ..... P1-P8

(1) 部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 612 | 1K001-004 | 3 | | 14 | o | P33FB#804B |
| 603B | 1K001-005 | 5 | | 1 | o | Black P33FB#803 |
| 610B | 1K001-006 | 3 | | | o | Black P33FB#804A |
| 2657 | 1K001-012 | 2 | 1B060-034-4<br>1B060-026-7 | 2 | oΔ | P33FB#954 |
| 101 | 1K010-016 | 1 | 1B060-026-7 | 1 | Δ | |
| 102 | 1K010-017-2 | 1 | 1B060-026-7 | 5 | oΔ | |
| 290 | 1K010-018 | 2 | 1B100-071 | 8 | oΔ | 35FB#940 |
| 641 | 1K010-019 | 2 | 1B206-004 | 1 | oΔ | P33FB#832 |
| 56 | 1K030-001 | 1 | 1B150-008-7 | 1 | oΔ | 35FB#76-1 |
| 46 | 1K040-001-1 | 1 | 1B150-008-7 | 1 | oΔ | P33FB#535B |
| 119 | 1K044-001-1 | 2 | 1B001-085-7 | | Δ | P33FB#12 |
| 645 | 1K044-003 | 2 | | 11 | o | P33FB#848-1 |
| 318 | 1K050-019 | 1 | 1B660-005-8 | 9 | oΔ | P33FB#318-6 |
| 361 | 1K050-020 | 1 | 1B001-102-6 | 10 | oΔ | |
| 375 | 1K050-022 | 1 | 1B660-005-8 | 9 | oΔ | 33FB#375-5 |
| 570 | 1K050-023 | 1 | | 6 | o | 35FB#660 |
| 642 | 1K050-024 | 1 | 1B001-102-6 | 10 | oΔ | |
| 662 | 1K050-029 | 0-4 | 1B660-005-8 | 8 | oΔ | P33FB#842a |
| 662 | 1K050-030 | 0-4 | 1B660-005-8 | 8 | oΔ | P33FB#842b |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 662 | 1K050-031 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842c |
| 662 | 1K050-032 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842d |
| 662 | 1K050-033 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842e |
| 662 | 1K050-034 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842f |
| 662 | 1K050-035 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842g |
| 662 | 1K050-036 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842h |
| 662 | 1K050-037 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842i |
| 662 | 1K050-038 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842j |
| 662 | 1K050-039 | 0~4 | 1B660-005-8 | 12 | oΔ | P33FB#842k-5 |
| 665 | | 1 | | 8 | o | |
| 662 | 1K050-040 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842m |
| 662 | 1K050-041 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842n |
| 662 | 1K050-042 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842p |
| 662 | 1K050-043 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842q |
| 662 | 1K050-044 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842r |
| 662 | 1K050-045 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842s |
| 662 | 1K050-046 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842t |
| 662 | 1K050-047 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842u |
| 662 | 1K050-048 | 0~4 | 1B660-005-8 | 8 | oΔ | P33FB#842v |
| 355 | 1K050-050 | 1 | 1B001-102-6 | 10 | oΔ | |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 2427 | 1K050-072 | 1 | 1B001-129-2 | 3 | oΔ | P33FB#427 |
| 2479 | 1K050-073 | 1 | | 11 | o | P33FB#489A |
| 2655 | 1K050-074 | 2 | 1B001-127 | 4 | oΔ | P33FB#843-5 |
| 2663 | 1K050-075 | 0∿1 | | 3 | o | P33FB#897A |
| 2663 | 1K050-076 | 0∿1 | | 3 | o | P33FB#897B |
| 2663 | 1K050-077 | 0∿1 | | 3 | o | P33FB#897C |
| 2663 | 1K050-078 | 0∿1 | | 3 | o | P33FB#897D |
| 2663 | 1K050-079 | 0∿1 | | 3 | o | P33FB#897E |
| 2663 | 1K050-080 | 0∿1 | | 3 | o | P33FB#897F |
| 228 | 1K060-003 | 2 | 1B001-102-6<br>1B001-098-1 | 10<br>9 | oΔ | 35FB#642 |
| 299 | 1K060-004 | 1 | 1B001-102-6 | 10 | oΔ | 35FB#952-5 |
| 656 | 1K060-005-1 | 1 | 1B620-008-2 | 12 | oΔ | P33FB#883 |
| 2481 | 1K060-013-1 | 1 | 1B060-034-4 | 2 | oΔ | P33FB#831-6 |
| 497 | 1K078-007 | 48 | 1B340-001-2<br>1B060-026-1<br>1B001-129-2<br>1B001-128-2 | 3 | oΔ | |
| 525 | 1K078-008 | 1 | 1B060-026-7 | | Δ | |
| 140 | 1K080-005 | 1 | | 11 | o | |
| 22A | 1K080-006 | 1 | 1B100-069-1 | | Δ | 33FB#2-1 |
| 22B | 1K080-007 | 1 | 1B100-072-1 | | Δ | Black 33FB#2-1 |
| 118 | 1K100-034 | 2 | 1B001-085 | | Δ | P33FB#11-1 |
| | | | | | | |

部 品 表　Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 139 | 1K100-035 | 2 | | 11 | o | S-8219 |
| 2042 | 1K110-082 | 1 | | 12 | o | P33FB#64 |
| 94 | *1K115-154 | 1 | 1B620-014-2 | 13 | o△ | P33FB#726-1 |
| 95 | *1K115-155 | 1 | 1B620-014-2 | 13 | o△ | P33FB#727 |
| 96 | *1K115-156 | 1 | 1B620-014-2 | 13 | o△ | P33FB#728 |
| 97 | *1K115-157 | 2 | 1B620-014-2 | 13 | o△ | P33FB#730 |
| 34 | 1K115-180 | 1 | 1B150-008-7 | 1 | o△ | 35FB#944A |
| 37 | 1K115-181 | 1 | 1B150-008-7 | 1 | o△ | |
| 111 | 1K115-183 | 1 | | 8 | o | |
| 154 | 1K115-184 | 1 | | 14 | o | 33FB#56 |
| 155 | 1K115-185-1 | 1 | | 14 | o | |
| 156 | 1K115-186 | 1 | | 14 | o | P33FB#58-1 |
| 157 | 1K115-187 | 1 | 1B660-005-8 | 9 | o△ | P33FB#59 |
| 158 | 1K115-188 | 1 | | 11 | o | P33FB#60 |
| 159 | 1K115-189 | 1 | | 11 | o | P33FB#58A-1 |
| 160 | 1K115-190 | 1 | | 14 | o | P33FB#58B-1 |
| 161 | 1K115-191 | 1 | 1B660-005-8 | 8 | o△ | |
| 162 | 1K115-192 | 2 | | 11 | o | P33FB#82-1 |
| 177 | 1K115-193 | 2 | 1B001-091-2 | | △ | |
| 40 | 1K115-297 | 1 | 1B150-008-7 | | △ | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 181 | 1K115-194 | 2 | 1B001-091-2 | | Δ | |
| 327 | 1K115-195 | 1 | 1B314-053-2 | | Δ | 35FB#327 |
| 357 | 1K115-196 | 1 | 1B001-102-6 | 10 | oΔ | |
| 370 | 1K115-197 | 1 | 1B001-102-6 | 10 | oΔ | |
| 402 | 1K115-198 | 1 | | 1 | o | P33FB#402 |
| 515 | 1K115-200 | 1 | 1B060-026-7 | | Δ | 33FB#558 |
| 221 | 1K115-201 | 1 | 1B640-011-1 | 5,7 | oΔ | |
| 232 | 1K115-202 | 1 | | 8 | o | 35FB#232 |
| 261 | 1K115-203 | 1 | 1B660-005-8 | 9 | oΔ | P33FB#261 |
| 303 | 1K115-220 | 1 | 1B100-068-4 | 9 | oΔ | |
| 52 | 1K115-233 | 8 | 1B660-005-8 | | oΔ | 9F4B#74 |
| 61 | 1K115-293 | 1 | 1B150-008-7 | 1 | oΔ | 最小要求単位：10個<br>Min. Order Q'ty:10pcs. |
| 2093 | 1K115-301 | 1 | 1B620-014-2 | 13 | oΔ | |
| 106 | 1K115-322 | 1 | 1B610-012-2 | | Δ | |
| 107 | 1K115-323-1 | 1 | 1B610-012-2 | | Δ | |
| 203 | 1K115-355 | 1 | | 12 | o | |
| 204 | 1K115-356 | 1 | | 12 | o | |
| 205 | 1K115-357 | 1 | | 12 | o | |
| 314 | 1K120-051 | 1 | 1B660-005-8 | 9 | oΔ | 35FB#314 |
| 29 | 1K115-312 | 1 | | 4 | o | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 326 | 1K120-052 | 1 | 1B001-102-6 | 10 | o△ | |
| 499 | 1K120-053 | 1 | | 4 | o | P33FB#887-1 |
| 500 | 1K120-054 | 1 | 1B001-129-2 | 3 | o△ | P33FB#888 |
| 536 | 1K120-055 | 1 | 1B060-026-7 | 5 | o△ | 33FB#578-1 |
| 557 | 1K120-056-1 | 2 | 1B060-026-7 | | △ | |
| | | | | | | |
| 650 | 1K120-060 | 1 | | 4 | o | P33FB#815-5 |
| 652 | 1K120-061 | 1 | | 4 | o | P33FB#820 |
| 654 | 1K120-063 | 3 | | 3 | o | P33FB#835 |
| 649B | 1K120-064 | 1 | 1B660-006-8 | | o△ | Black P33FB#813 |
| 649A | 1K120-092 | 1 | 1B660-005-8 | 7 | o△ | P33FB#813 |
| 98 | *1K123-034 | 1 | 1B620-014-2 | 13 | o△ | P33FB#731 |
| 628 | 1K123-038 | 1 | 1B660-005-8 | 8 | o△ | |
| 647 | 1K123-039 | 3 | 1B660-005-8 | 7 | o△ | P33FB#805 |
| 648 | 1K123-040 | 1 | | 12 | o | |
| 643 | 1K123-042 | 7 | 1B660-005-8 | 8 | o△ | P33FB#810 |
| 66 | 1K130-052 | 2 | | 11 | o | |
| 72 | 1K130-053 | 2 | | 9, 11 | o | |
| 134 | 1K130-054 | 1 | | 12 | o | P33FB#914 |
| 615 | 1K123-051 | 1 | 1B060-034-4 | 2 | o△ | |

部 品 表　Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 164 | 1K130-055 | 1 | | 12 | o | |
| 165 | 1K130-056-1 | 1 | | 4 | o | |
| 167 | 1K130-057 | 1 | | 12 | o | |
| 334 | 1K130-058 | 1 | 1B660-005-8 | 9 | o△ | |
| 474 | 1K130-063 | 1 | | 12 | o | P33FB#539 |
| 538 | 1K130-065 | 1 | | 5 | o | |
| 646 | 1K130-067 | 1 | 1B660-005-8 | 10 | o△ | 35FB#886-5 |
| 225 | 1K130-072 | 1 | | 5 | o | |
| 2433 | 1K130-096 | 1 | | 4 | o | P33FB#435A |
| 2435 | 1K130-097 | 1 | 1B001-127 | 4 | o△ | P33FB#435 |
| 2441 | 1K130-098 | 1 | | 11 | o | P33FB#441-6 |
| 2651 | 1K130-099 | 1 | | 3 | o | P33FB#815A-5 |
| 116 | 1K146-016 | 1 | | 14 | o | |
| 403A | 1K146-017 | 1 | 1B060-034-4 | 1 | o△ | P33FB#403-1 |
| 403B | 1K146-018 | 1 | 1B060-051-2 | | o△ | Black P33FB#403-1 |
| 405 | 1K150-008 | 1 | 1B060-034-4 | 2 | o△ | P33FB#405-2 |
| 526 | 1K150-010 | 1 | 1B060-026-7 | | △ | |
| 2191 | 1K150-017 | 1 | 1B060-034-4 | 2 | o△ | P33FB#508-6 |
| 493 | 1K160-180 | 1 | 1B150-008-7 | 1 | o△ | 35FB#493A |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 493 | 1K160-181 | 1 | 1B150-008-7 | 1 | oΔ | 35FB#493B |
| 493 | 1K160-182 | 1 | 1B150-008-7 | 1 | oΔ | 35FB#493C |
| 534 | 1K160-183 | 1 | 1B060-026-7 | | Δ | 33FB#544-1 |
| 528 | 1K160-195-1 | 1 | 1B060-026-7 | 5 | oΔ | |
| 533 | 1K201-012 | 1 | 1B060-026-7 | 5 | oΔ | |
| 563 | 1K201-013 | 1 | | 6 | o | 35FB#653 |
| 567 | 1K201-014 | 1 | 1B314-049 | | Δ | 35FB#657 |
| 401 | 1K206-001 | 1 | 1B206-004 | | Δ | P33FB#401-1 |
| 491 | 1K206-002 | 1 | 1B150-008-7 | 1 | oΔ | 35FB#491 |
| 217 | 1K208-009 | 1 | 1B001-098-1 | | Δ | P33FB#217-6 |
| 99 | *1K220-031 | 1 | 1B620-014-2 | 13 | oΔ | P33FB#732 |
| 63 | 1K220-036 | 1 | 1B150-008-7 | 1 | oΔ | |
| 65 | 1K220-037-1 | 1 | | 11 | o | |
| 83 | 1K220-38-1 | 1 | | 14 | o | P33FB#714 |
| 498 | 1K220-039 | 1 | 1B001-127 | 4 | oΔ | P33FB#498 |
| 213 | 1K220-041 | 1 | 1B001-098-1 | 9 | oΔ | 35FB#214A-6 |
| 216 | 1K220-042 | 1 | 1B660-005-8 | | Δ | P33FB#216 |
| 535 | 1K220-043 | 1 | 1B060-026-7 | | Δ | 33FB#557-1 |
| 2446 | 1K220-064 | 1 | 1B001-128-2 | | Δ | P33FB#456A |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 128 | 1K225-042-1 | 1 | | 12 | o | P33FB#538A |
| 341 | 1K225-043-1 | 1 | 1B001-102-6 | 10 | oΔ | |
| 347 | 1K225-044-2 | 1 | 1B001-102-6 | 10 | oΔ | |
| 565 | 1K225-045 | 1 | | 6 | o | 35FB#655 |
| 176 | 1K230-025-1 | 1 | 1B001-091-2 | 12 | oΔ | |
| 313 | 1K230-028 | 1 | 1B660-005-8 | 9 | oΔ | P33FB#313-6 |
| 339 | 1K230-029 | 1 | 1B001-102-6 | 10 | oΔ | 35FB#339-6 |
| 340 | 1K230-030-1 | 1 | 1B001-102-6 | 10 | oΔ | |
| 343 | 1K230-031-2 | 1 | 1B610-005-8 | 9 | oΔ | |
| 348 | 1K230-032 | 1 | 1B001-102-6 | 10 | oΔ | |
| 349 | 1K230-033-1 | 1 | 1B001-102-6 | 10 | oΔ | |
| 352 | 1K230-034 | 1 | 1B001-102-6 | 10 | oΔ | |
| 378 | 1K230-035 | 1 | 1B660-005-7 | 10 | oΔ | |
| 406 | 1K230-039 | 1 | 1B060-034-4 | 1 | oΔ | 35FB#406-2 |
| 450 | 1K230-041 | 1 | 1B001-129-2 | 3 | oΔ | P33FB#450 |
| 465 | 1K230-043 | 1 | | 12 | o | P33FB#465 |
| 466 | 1K230-044-1 | 1 | 1B001-132-1 | | Δ | P33FB#529-1 |
| 539 | 1K230-046-1 | 1 | | 5 | o | |
| 2190 | 1K230-076 | 1 | 1B060-034-3 | 2 | oΔ | P33FB#505-6 |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 2197 | -1K230-077 | 1 | 1B060-034-4 | 2 | o△ | P33FB#522A-5 |
| 2430 | 1K230-078 | 1 | | 3 | o | P33FB#414B-5 |
| 2476 | 1K230-079 | 1 | 1B060-034-4 | | △ | P33FB#476 |
| 41 | 1K233-014 | 1 | 1B100-067-1 | 1 | o△ | P33FB#9 |
| 518 | 1K233-015 | 6 | 1B060-026-7 | | △ | 33FB#560 |
| 233 | 1K233-016-1 | 2 | | 8 | o | 35FB#233 |
| 84 | *1K240-033-1 | 1 | 1B620-014-2 | | △ | |
| 49 | 1K240-045 | 1 | 1B150-008-7 | 1 | o△ | 35FB#68 |
| 50 | 1K240-046 | 1 | 1B150-008-7 | 1 | o△ | P33FB#47 |
| 51 | 1K240-047 | 1 | 1B240-003 | | △ | P33FB#70-1 |
| 69 | 1K240-048 | 1 | 1B314-056-2 | | △ | |
| 74 | 1K240-049 | 1 | 1B001-086 | | △ | P33FB#703-1 |
| 146 | 1K240-050 | 1 | 1B060-021 | | △ | P33FB#47 |
| 178 | 1K240-051 | 1 | 1B001-091-2 | | △ | |
| 179 | 1K240-052 | 1 | 1B001-091-2 | | △ | |
| 345 | 1K240-054 | 1 | 1B100-068-4 | | △ | P33FB#345 |
| 346 | 1K240-055 | 1 | 1B100-068-4 | | △ | P33FB#346 |
| 364 | 1K240-056-1 | 1 | 1B060-022-2 | | △ | |
| 365 | 1K240-057-1 | 1 | 1B060-022-2 | | △ | 35FB#926 |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 520 | 1K240-061 | 1 | 1B060-026-7 | | Δ | 33FB#567-1 |
| 524 | 1K240-062 | 0∿1 | 1B060-026-7 | | Δ | |
| 527 | 1K240-063-1 | 1 | 1B060-026-7 | | Δ | |
| 566 | 1K240-064-1 | 1 | | 6 | o | P33FB#656 |
| 208 | 1K240-065-1 | 1 | 1B660-005-8 | 7 | oΔ | P33FB#208-8 |
| 222 | 1K240-066 | 1 | 1B001-106-1 | | Δ | |
| 240 | 1K240-067 | 1 | 1B660-005-8 | 8 | oΔ | 35FB#240-5 |
| 244 | 1K240-068 | 2 | 1B001-099-1 | | Δ | 35FB#244-2 |
| 288 | 1K240-069 | 1 | 1B100-071 | | Δ | 35FB#941-1 |
| 289 | 1K240-070 | 1 | 1B100-071 | | Δ | 35FB#942-1 |
| 543 | 1K240-071-2 | 1 | 1B060-026-7 | 5 | oΔ | |
| 519 | 1K240-072 | 1 | 1B060-026-7 | | Δ | 33FB#561 |
| 49 | 1K240-073 | 1 | 1B150-009-7 | 1 | oΔ | 35FB#68 |
| 260 | 1K240-074 | 1 | | 8 | o | 35FB#260 |
| 524 | 1K240-119-1 | 0∿1 | 1B060-026-7 | | Δ | |
| 512 | 1K245-001 | 1 | 1B060-026-7 | | Δ | |
| 516 | 1K246-005 | 1 | 1B060-026-7 | | Δ | 33FB#559-1 |
| 36 | 1K248-001 | 1 | 1B150-008-7 | 1 | oΔ | |
| 517 | 1K248-002 | 1 | 1B060-026-7 | | Δ | |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 542 | 1K248-003 | 1 | 1B060-026-7 | 5 | o△ | |
| 333 | 1K260-008-1 | 1 | 1B001-102-6 | | △ | |
| 336 | 1K260-009-1 | 1 | 1B260-002-1 | | △ | |
| 338 | 1K260-010-2 | 1 | 1B001-102-6 | | △ | |
| 344 | 1K260-011-1 | 1 | 1B001-102-6 | | △ | |
| 509 | 1K260-017-1 | 1 | 1B060-026-7 | | △ | |
| 541 | 1K260-018 | 1 | 1B060-026-7 | | △ | |
| 545 | 1K260-019-1 | 1 | 1B060-026-7 | | △ | |
| 2193 | 1K260-049 | 1 | 1B060-034-4 | 2 | o△ | P33FB#510-6 |
| 2194 | 1K260-050 | 1 | 1B060-034-4 | 2 | o△ | P33FB#511-6 |
| 2411 | 1K260-051 | 1 | 1B001-129-2 | | △ | P33FB#418 |
| 2415 | 1K260-052 | 1 | | 3 | o | P33FB#415-6 |
| 2416 | 1K260-053 | 1 | 1B001-129-2 | | △ | P33FB#416-1 |
| 2417 | 1K260-054 | 1 | 1B001-129-2 | | △ | P33FB#417-6 |
| 2420 | 1K260-055-1 | 1 | 1B001-128-2 | | △ | P33FB#420-2 |
| 2431 | 1K260-056 | 1 | | 4 | o | P33FB#431-6 |
| 530 | 1K267-001-1 | 1 | 1B060-026-7 | | △ | |
| 531 | 1K267-002 | 1 | 1B060-026-7 | | △ | |
| 2199 | 1K275-009-1 | 1 | 1B060-034-4 | 2 | o△ | P33FB#532-6 |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 507 | 1K277-003-1 | 1 | 1B060-026-7 | | Δ | |
| 544 | 1K277-004-1 | 1 | 1B060-026-7 | | Δ | |
| 429 | 1K300-034 | 1 | | 4 | o | P33FB#429 |
| 443 | 1K310-019 | 1 | 1B001-129-2 | | Δ | P33FB#443 |
| 554 | 1K310-020 | 1 | 1B310-020 | | Δ | |
| 79 | 1K314-050 | 1 | | 14 | o | 35FB#708-1 |
| 129 | 1K314-051-1 | 1 | | 12 | o | P33FB#462 |
| 2470 | 1K275-010 | 1 | | 4 | o | P33FB#531-6 |
| 130 | 1K314-052-1 | 1 | | 12 | o | |
| 166 | 1K314-053 | 1 | | 12 | o | |
| 169 | 1K314-054 | 1 | 1B314-051 | | Δ | |
| 174 | 1K314-055-1 | 1 | 1B001-091-2 | | Δ | |
| 175 | 1K314-056 | 1 | | 12 | o | |
| 310 | 1K314-057-1 | 1 | 1B314-052-1 | | Δ | |
| 315 | 1K314-058 | 1 | 1B314-054-1 | | Δ | |
| 317 | 1K314-059 | 1 | 1B001-102-6 | | Δ | |
| 321 | 1K314-060 | 1 | 1B001-102-6 | | Δ | |
| 322 | 1K314-061-1 | 1 | 1B314-053-2 | | Δ | |
| 323 | 1K314-062 | 1 | 1B001-102-6 | | Δ | |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 328 | 1K314-063 | 1 | 1B001-102-6 | | Δ | |
| 329 | 1K314-064-1 | 1 | 1B001-102-6 | 10 | oΔ | |
| 354 | 1K314-065 | 1 | 1B001-102-6 | | Δ | |
| 444 | 1K314-069 | 1 | 1B001-129-2 | | Δ | P33FB#444 |
| 553 | 1K314-072 | 1 | 1B060-026-7 | | Δ | |
| 418 | 1K314-080 | 1 | 1B060-034-4 | | Δ | |
| 2064 | 1K314-104-1 | 1 | 1B314-056-2 | | Δ | |
| 2196 | 1K314-105 | 1 | 1B060-034-4 | 2 | oΔ | P33FB#522-6 |
| 2484 | 1K314-106 | 1 | 1B060-034-4 | | Δ | P33FB#484-6 |
| 2192 | 1K330-007 | 1 | 1B060-034-4 | 2 | oΔ | P33FB#509-6 |
| 561 | 1K333-003 | 1 | | 6 | o | |
| 131 | 1K340-018 | 1 | | 12 | o | |
| 168 | 1K340-019 | 1 | | 4 | o | |
| 171 | 1K340-020 | 1 | | 4 | o | P33FB#460 |
| 449 | 1K340-023 | 1 | 1B001-129-2 | | Δ | P33FB#449 |
| 503 | 1K340-025-1 | 1 | 1B060-026-7 | | Δ | |
| 2409 | 1K340-040 | 1 | 1B060-034-4 | | Δ | P33FB#409-6 |
| 53 | 1K360-007 | 1 | 1B150-008-7 | 1 | oΔ | P33FB#73 |
| 90 | *1K362-007-1 | 1 | 1B620-014-2 | 13 | oΔ | P33FB#722 |
| | | | | | | |

部 品 表　Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 2087 | 1K362-014 | 1 | 1B620-014-2 | | Δ | P33FB#718 |
| 67 | 1K366-010 | 1 | 1B314-056-2 | | Δ | |
| 356 | 1K366-011-1 | 1 | 1B314-053-2 | | Δ | |
| 363 | 1K366-012 | 1 | 1B001-102-6 | | Δ | |
| 391 | 1K366-013 | 1 | 1B001-102-6 | | Δ | P33FB#391 |
| | *1K370-042 | 1 | 1B400-001-1 | | Δ | |
| | *1K370-043 | 1 | 1B400-001-1 | | Δ | |
| 81 | *1K370-176-1 | 1 | 1B620-014-2 | | Δ | P33FB#710 |
| 82 | *1K370-177 | 2 | 1B620-014-2 | | Δ | P33FB#711-1 |
| 86 | *1K370-179-1 | 2 | 1B620-014-2 | | Δ | |
| 89 | *1K370-181 | 3 | 1B620-014-2 | | Δ | P33FB#721 |
| 33 | 1K370-189 | 1 | 1B620-008-2 | 12 | oΔ | P33FB#439 |
| 57 | 1K370-191 | 1 | 1B680-006-1 | | Δ | 35FB#77 |
| 75 | 1K370-192 | 2 | 1B001-086 | | Δ | P33FB#704-2 |
| 76 | 1K370-193 | 4 | 1B620-014-2 | | Δ | P33FB#705 |
| 103 | 1K370-194 | 1 | | 14 | o | |
| 108 | 1K370-195 | 1 | 1B310-019 | | Δ | |
| 132 | 1K370-196 | 1 | | 12 | o | P33FB#911 |
| 147 | 1K370-197 | 1 | 1B060-021 | | Δ | P33FB#48 |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 170 | 1K370-198 | 1 | 1B314-051 | | Δ | |
| 172 | 1K370-199 | 1 | 1B314-051 | | Δ | |
| 173 | 1K370-200-1 | 1 | 1B001-091-2 | | Δ | |
| 302 | 1K370-203 | 1 | 1B001-100 | | Δ | |
| 306 | 1K370-204 | 4 | 1B100-068-4 | | Δ | P33FB#306 |
| 307 | 1K370-205-2 | 1 | 1B100-068-4 | | Δ | |
| 311 | 1K370-206 | 1 | 1B314-052-1 | | Δ | |
| 312 | 1K370-207-1 | 1 | 1B314-054-1 | | Δ | |
| 319 | 1K370-208 | 1 | 1B314-053-2 | | Δ | |
| 324 | 1K370-209 | 1 | 1B314-054-1 | | Δ | |
| 325 | 1K370-210 | 1 | 1B001-102-6 | | Δ | |
| 330 | 1K370-211 | 1 | 1B001-102-6 | | Δ | |
| 331 | 1K370-212 | 1 | 1B001-102-6 | | Δ | |
| 337 | 1K370-213 | 1 | 1B001-102-6 | | Δ | |
| 342 | 1K370-214 | 1 | 1B001-102-6 | | Δ | |
| 351 | 1K370-215 | 1 | 1B001-102-6 | | Δ | |
| 353 | 1K370-216 | 1 | 1B001-102-6 | | Δ | |
| 373 | 1K370-217 | 1 | 1B100-068-4 | | Δ | P33FB#373-1 |
| 380 | 1K370-218 | 1 | 1B314-053-2 | | Δ | |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 389 | 1K370-220 | 1 | 1B001-102-6 | | Δ | |
| 440 | 1K370-224 | 1 | 1B001-129-2 | | Δ | P33FB#440 |
| 448 | 1K370-225 | 1 | 1B001-129-2 | | Δ | P33FB#448 |
| 458 | 1K370-227 | 1 | 1B300-010-2<br>1B300-009<br>1B300-008-2<br>1B300-007 | | Δ | P33FB#458 |
| 504 | 1K370-232 | 1 | 1B060-026-7 | | Δ | |
| 506 | 1K370-233 | 1 | 1B060-026-7 | | Δ | |
| 510 | 1K370-234-1 | 1 | 1B060-026-7 | | Δ | |
| 546 | 1K370-235 | 1 | 1B060-026-7 | | Δ | |
| 547 | 1K370-236 | 1 | 1B060-026-7 | | Δ | |
| 548 | 1K370-237-2 | 1 | 1B060-026-7 | | Δ | |
| 556 | 1K370-238 | 1 | 1B310-020 | | Δ | |
| 562 | 1K370-239 | 1 | | 6 | o | |
| 568 | 1K370-240 | 1 | 1B314-049 | | Δ | 35FB#658 |
| 212 | 1K370-241-1 | 1 | 1B001-098-1 | | Δ | 35FB#212-6 |
| 215 | 1K370-242 | 1 | 1B001-098-1 | | Δ | P33FB#215-6 |
| 243 | 1K370-244-1 | 4 | 1B001-099-1 | | Δ | 35FB#243 |
| 246 | 1K370-245 | 1 | 1B001-102-6 | | Δ | |
| 247 | 1K370-246 | 1 | 1B001-102-6 | | Δ | |
| 248 | 1K370-247 | 1 | 1B001-100 | | Δ | |
| | | | | | | |

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 226 | 1K370-355-1 | 1 | 1B001-106-1 | | Δ | |
| 2045 | 1K370-363 | 1 | 1B150-008-7 | 1 | oΔ | 35FB#470-5 |
| 2419 | 1K370-364 | 1 | 1B001-129-2 | | Δ | P33FB#419 |
| 2426 | 1K370-365 | 1 | 1B001-129-2 | | Δ | P33FB#426 |
| 2428 | 1K370-366-1 | 1 | 1B001-130-1 | | Δ | P33FB#414A-5 |
| 2434 | 1K370-367 | 1 | 1B001-127 | 4 | oΔ | P33FB#434-6 |
| 2453 | 1K370-368-1 | 1 | 1B001-132-1 | | Δ | |
| 2473 | 1K370-369 | 1 | 1B060-034-4 | | Δ | P33FB#473-6 |
| 2477 | 1K370-370 | 1 | 1B060-034-4 | | Δ | P33FB#477-6 |
| 2482 | 1K370-371 | 2 | 1B060-034-4 | | Δ | P33FB#482-6 |
| 2485 | 1K370-372 | 1 | 1B060-034-4 | | Δ | P33FB#485-6 |
| 55 | 1K380-007 | 1 | 1B680-006-1 | | Δ | P33FB#75 |
| | 1K400-016-1 | 1 | 1B400-001-1 | | Δ | |
| 39 | 1K400-076-1 | 1 | 1B100-067-1 | | Δ | P33FB#8-1 |
| 62 | 1K400-077-1 | 1 | 1B150-008-7 | 1 | oΔ | |
| 117 | 1K400-078 | 1 | | 12 | o | 23FB#10 |
| 38A | 1K400-079-1 | 1 | 1B150-008-7 | | Δ | 35FB#7 |
| 38B | 1K400-082 | 1 | 1B150-009-7 | | Δ | Black 35FB#7 |
| 202 | 1K404-030 | 1 | 1B660-005-8 | 7 | oΔ | P33FB#202-6 |
| 105 | 1K370-358-1 | 1 | | 14 | o | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 48 | 1K406-012-1 | 1 | 1B150-008-7 | 1 | o△ | 35FB#67-1 |
| 120 | 1K467-016 | 1 | | 6 | o | P33FB#13 |
| 142 | 1K467-017-1 | 1 | 1B467-007-1 | | △ | P33FB#44 |
| 532 | 1K470-003 | 1 | 1B060-026-7 | 5 | o△ | |
| 537 | 1K470-004 | 1 | 1B470-001 | | △ | |
| 540 | 1K470-005-1 | 1 | 1B060-026-7 | 5 | o△ | |
| 2188 | 1K470-011 | 1 | 1B060-034-4 | 2 | o△ | P33FB#502-1 |
| 2200 | 1K480-005 | 1 | 1B060-034-4 | 2 | o△ | P33FB#533 |
| 572 | 1K485-036 | 1 | | 6 | o | |
| 251 | 1K576-025-1 | 1 | 1B100-076 | 8 | o△ | |
| 257 | 1K576-027 | 2 | 1B100-071 | | △ | P33FB#257 |
| 78 | *1K600-079 | 1 | 1B620-014-2 | | △ | P33FB#707-1 |
| 71 | 1K600-086 | 1 | 1B314-056-2 | | △ | |
| 73 | 1K600-087 | 1 | 1B001-086 | | △ | P33FB#702-2 |
| 109 | 1K600-088 | 1 | 1B310-019 | | △ | |
| 113 | 1K600-089 | 1 | | 8 | o | |
| 114 | 1K600-090-1 | 1 | | 8 | o | |
| 115 | 1K600-091 | 1 | | 8 | o | |
| 133 | 1K600-097 | 1 | | 12 | o | |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部 品 番 号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備 考 Remarks |
|---|---|---|---|---|---|---|
| 137 | 1K600-093 | 1 | 1B001-092 | | Δ | P33FB#924-1 |
| 304 | 1K600-094-1 | 2 | 1B100-068-4 | | Δ | |
| 332 | 1K600-095 | 1 | 1B001-100 | | Δ | |
| 358 | 1K600-096 | 1 | 1B001-102-6 | 10 | oΔ | |
| 369 | 1K600-097 | 1 | 1B060-022-2 | | Δ | 35FB#931 |
| 374 | 1K600-099 | 1 | 1B660-005-7 | 9 | oΔ | 35FB#946 |
| 468 | 1K600-101 | 0~1 | 1B300-009<br>1B300-007 | | Δ | P33FB#530A |
| 468 | 1K600-102-1 | 0~1 | 1B300-010-2<br>1B300-008-2 | | Δ | P33FB#530B-1 |
| 214 | 1K600-104 | 1 | 1B001-098-1 | | Δ | |
| 47 | 1K600-130 | 1 | | 11 | o | |
| 2456 | 1K600-151 | 1 | 1B001-128-2 | | Δ | P33FB#456-1 |
| 2472 | 1K600-152 | 1 | 1B001-131 | | Δ | P33FB#472-6 |
| 2475 | 1K600-153 | 1 | 1B001-131 | | Δ | P33FB#540A-6 |
| 2486 | 1K600-154 | 1 | 1B001-131 | | Δ | P33FB#487A-5 |
| 88 | *1K610-163 | 1 | 1B620-014-2 | | Δ | P33FB#720 |
| 54 | 1K610-166 | 1 | 1B150-008-7 | 1 | oΔ | 35FB#84 |
| 77 | 1K610-168 | 1 | | 14 | o | 35FB#706 |
| 80 | 1K610-169 | 1 | | 14 | o | P33FB#709 |
| 112 | 1K610-170 | 1 | 1B660-005-8 | 9 | oΔ | |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 2195 | 1K610-267-1 | 1 | 1B060-034-4 | 2 | oΔ | P33FB#521-6 |
| 2198 | 1K610-268 | 1 | 1B060-034-4 | | Δ | P33FB#526 |
| 2393 | 1K610-269-1 | 1 | 1B610-012-2 | | Δ | |
| 2407 | 1K610-270 | 1 | 1B060-034-4 | 2 | oΔ | P33FB#408A |
| 2412 | 1K610-271 | 1 | | 3 | o | P33FB#412-7 |
| 2414 | 1K610-272-1 | 1 | 1B001-130-1 | | Δ | P33FB#414-6 |
| 2445 | 1K610-273 | 1 | 1B001-129-2 | | Δ | P33FB#445 |
| 2451 | 1K610-274-1 | 1 | 1B060-034-4 | | Δ | P33FB#451-7 |
| | | | | | | |
| 2483 | 1K610-275 | 6 | 1B060-034-4 | 2 | oΔ | P33FB#483-6 |
| 2487 | 1K610-276 | 1 | 1B001-131 | | Δ | P33FB#487-6 |
| 2490 | 1K610-277-1 | 1 | 1B060-034-4 | 2 | oΔ | 35FB#490-1 |
| 2496 | 1K610-278 | 1 | 1B001-129-2 | 3 | oΔ | P33FB#496-6 |
| 2085 | 1K610-280 | 1 | 1B620-014-2 | | Δ | P33FB#716 |
| 121 | 1K610-281 | 1 | | 3 | o | |
| 23A | 1K620-018-1 | 1 | 1B150-008-7 | | Δ | |
| 24A | 1K620-019 | 1 | 1B620-008-2 | | Δ | P33FB#4 |
| 136 | 1K620-021 | 4 | 1B001-092 | | Δ | P33FB#919-1 |
| 523 | 1K620-022-1 | 1 | 1B060-026-7 | | Δ | |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 245 | 1K620-032 | 1 | 1B001-099-1 | | Δ | 35FB#245 |
| 250 | 1K620-033 | 1 | 1B660-005-8 | 8 | oΔ | |
| 23B | 1K620-034-1 | 1 | 1B150-009-7 | | Δ | Black |
| 24B | 1K620-035 | 1 | 1B620-010-1 | | Δ | Black P33FB#4 |
| 2462 | 1K620-047 | 1 | 1B001-128-2 | | Δ | |
| 110 | 1K625-006 | 1 | 1B206-003 | | Δ | |
| 189 | 1K625-007-1 | 1 | 1B150-008-7 | 1 | oΔ | |
| 459 | 1K625-008-1 | 0∿1 | 1B300-008-2<br>1B300-007 | | Δ | P33FB#459A |
| 459 | 1K625-009-1 | 0∿1 | 1B300-010-2<br>1B300-009 | | Δ | P33FB#459B |
| 564 | 1K625-010 | 1 | 1B314-049 | | Δ | P33FB#654-1 |
| 522 | 1K625-011 | 1 | 1B470-001 | 5 | oΔ | 33FB#541B |
| 2452 | 1K625-017-1 | 1 | 1B001-129-2 | | Δ | P33FB#452-6 |
| 43 | 1K630-080 | 1 | 1B150-008-7 | 1 | oΔ | |
| 104 | 1K630-081 | 1 | | 14 | o | |
| 144 | 1K630-082 | 1 | 1B467-007-1 | | Δ | P33FB#46 |
| 424 | 1K630-083 | 1 | 1B001-128-2 | | Δ | P33FB#424-1 |
| 437 | 1K630-085 | 1 | | 4 | o | P33FB#437 |
| 461 | 1K630-087 | 1 | 1B300-010-2<br>1B300-009<br>1B300-008-2<br>1B300-007 | | Δ | P33FB#461 |
| 529 | 1K630-089 | 1 | 1B060-026-7 | | Δ | |
| 2025 | 1K620-046-2 | 1 | 1B620-014-2 | | Δ | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 218 | 1K630-090 | 1 | 1B660-005-8 | | Δ | P33FB#218 |
| 2421 | 1K630-113 | 1 | 1B001-128-2 | | Δ | P33FB#421-1 |
| 2436 | 1K630-114 | 1 | | 4 | o | P33FB#436-1 |
| 2455 | 1K630-115 | 1 | 1B630-009 | | Δ | P33FB#455 |
| 2460 | 1K630-116 | 1 | 1B630-009 | | Δ | P33FB#528 |
| 31 | 1K640-187 | 1 | 1B620-010-1<br>1B620-008-2 | | Δ | P33FB#922 |
| 32 | 1K640-188 | 1 | 1B620-010-1<br>1B620-008-2 | | Δ | P33FB#540 |
| 35 | 1K640-189-1 | 1 | 1B620-010-1<br>1B150-008-7 | 1 | oΔ | |
| 44 | 1K640-190 | 1 | 1B150-008-7 | 1 | oΔ | |
| 320 | 1K640-191 | 1 | 1B001-102-6 | | Δ | |
| 335 | 1K640-192 | 1 | 1B260-002-1 | | Δ | |
| 423 | 1K640-196 | 2 | 1B340-001-2<br>1B001-129-2 | | Δ | 23FB P33FB#423 |
| 432 | 1K640-198 | 1 | | 4 | o | |
| 438 | 1K640-199 | 1 | | 4 | o | P33FB#438-6 |
| 454 | 1K640-201-1 | 1 | 1B340-001-2 | | Δ | P33FB#454 |
| 457 | 1K640-202 | 2 | 1B340-001-2<br>1B001-129-2 | | Δ | P33FB#457 |
| 513 | 1K640-205-1 | 1 | 1B060-026-7 | | Δ | |
| 514 | 1K640-206 | 1 | 1B060-026-7 | | Δ | 33FB#614A-1 |
| 551 | 1K640-207 | 1 | 1B470-001 | 5 | oΔ | 33FB#541-3 |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 220 | 1K640-208-1 | 1 | 1B640-011-1 | 7 | o△ | |
| 224 | 1K640-209-1 | 1 | | 5 | o | |
| 223 | 1K640-250-1 | 1 | 1B001-106-1 | | △ | |
| 2404 | 1K640-253 | 1 | 1B060-034-4 | 2 | o△ | 35FB#404A |
| 2422 | 1K640-254 | 1 | 1B001-129-2 | | △ | P33FB#422-6 |
| 2425 | 1K640-255 | 1 | 1B001-129-2 | | △ | P33FB#425 |
| 2442 | 1K640-256 | 1 | 1B630-009 | | △ | P33FB#455A |
| 127 | 1K650-003 | 1 | | 12 | o | P33FB#538 |
| 26 | 1K660-015-1 | 1 | 1B660-005-8 | | △ | |
| 2021 | 1K660-022-2 | 1 | | | × | |
| 68 | 1K680-097-1 | 1 | 1B314-056-2 | | △ | |
| 91 | 1K680-098-1 | 1 | 1B620-014-2 | | △ | |
| 122 | 1K680-099 | 1 | | 8 | o | 33FB#39 |
| 123 | 1K680-100 | 1 | | 8 | o | 33FB#40 |
| 135 | 1K680-101 | 1 | 1B001-092 | | △ | P33FB#916-1 |
| 138 | 1K680-102-1 | 1 | | 4 | o | |
| 145 | 1K680-103 | 1 | 1B060-021 | | △ | |
| 180 | 1K680-104 | 1 | 1B001-091-2 | | △ | |
| 362 | 1K680-106 | 1 | 1B001-102-6 | 10 | o△ | |
| 219 | 1K640-261 | 1 | 1B660-005-8 | 7 | o△ | |

部 品 表 Parts list

FAA14001-R-3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 372 | 1K680-107 | 1 | 1B060-022-2 | | Δ | |
| | | | | | | |
| 495 | 1K680-110 | 1 | 1B206-004 | 1 | o Δ | P33FB#495 |
| 511 | 1K680-111-1 | 1 | 1B060-026-7 | | Δ | |
| 252 | 1K680-112-1 | 1 | | 8 | o | |
| 259 | 1K680-113 | 1 | 1B100-071 | | Δ | 35FB#259-1 |
| 249 | 1K680-124 | 1 | 1B060-027-3 | 8 | o Δ | |
| 2408 | 1K680-169 | 1 | 1B060-034-4 | 2 | o Δ | P33FB#408 |
| 2413 | 1K680-170 | 1 | | 3 | o | P33FB#413-6 |
| 2471 | 1K680-171 | 1 | 1B001-131 | | Δ | P33FB#534-6 |
| 2489 | 1K680-172-1 | 1 | | 11 | o | |
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部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 1011 | 1S237-002 | 1 | 1B060-027-3 | | Δ | |
| 1012 | 1S250-002 | 2 | 1B060-027-3 | | Δ | 35FB#258 |
| 1013 | 1S260-004-1 | 1 | 1B060-027-3 | | Δ | |
| 1014 | 1S260-005 | 1 | 1S005-002 | | Δ | |
| 1021 | 1S310-009 | 1 | 1B060-027-3 | | Δ | 3.3MΩ 1/8W |
| 1022 | 1S310-010 | 1 | 1B060-027-3 | | Δ | 39KΩ 1/8W |
| 1023 | 1S310-011 | 1 | 1B060-027-3 | | Δ | 82KΩ 1/8W |
| 1024 | 1S310-012 | 1 | 1B060-027-3 | | Δ | 4.7KΩ 1/8W |
| 1031 | 1S322-006 | 1 | 1B060-027-3 | | Δ | 47KΩ 0.15W |
| 552 | 1S322-003-1 | 1 | 1B060-026-7 | | Δ | P33FB#680G |
| 1033 | 1S322-007 | 2 | 1B060-027-3 | | Δ | 10KΩ 0.15W |
| 1045 | 1S335-011 | 1 | 1B060-027-3 | | Δ | 2200PF 25V |
| 1041 | 1S340-006 | 1 | 1B060-027-3 | | Δ | 6.8μF 6.3V |
| 1042 | 1S340-007 | 1 | 1B060-027-3 | | Δ | 1.5μF 10V |
| 1043 | 1S340-008 | 1 | 1B060-027-3 | | Δ | 3.3μF 16V |
| 1044 | 1S340-009 | 1 | 1B060-027-3 | | Δ | 10μF 16V |
| 70 | 1S700-009 | 1 | 1S007-010 | | Δ | |
| 549 | 1S705-002-1 | 1 | 1B060-026-7 | | Δ | |
| 550 | 1S705-003-1 | 1 | 1B060-026-7 | | Δ | |
| | | | | | | |

部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 1001 | 1S705-004-1 | 1 | 1B060-027-3 | | Δ | |
| 1002 | 1S705-005 | 1 | 1S005-002 | | Δ | 35FB #109 |
| 2488 | 1S705-009 | 1 | 1B060-034-4 | | Δ | |
| 1051 | 1S810-055 | 1 | 1B060-021 | 11 | x | W-0056RE |
| 1052 | 1S810-056 | 1 | | 12 | x | W-0056BK |
| 1053 | 1S810-057 | 1 | 1B060-021 | 11 | x | W-0056RE |
| 1054 | 1S810-058 | 1 | | 12 | x | W-0056BE |
| 1055 | 1S810-059 | 1 | 1B001-091-2 | 12 | x | W-0056GN |
| 1056 | 1S810-060 | 1 | 1B060-034-4 | 2 | x | W-0056PU |
| 1057 | 1S810-061 | 1 | | | x | W-0056WH |
| 1058 | 1S810-062 | 1 | | 12 | x | W-0056WH |
| 1060 | 1S810-064 | 1 | 1S007-010 | | x | W-0056RE |
| 1061 | 1S810-065 | 1 | 1B060-026-7 | | x | W-0056PU |
| 1062 | 1S810-066 | 1 | 1B060-026-7 | | x | W-0056BK |
| 1063 | 1S810-067 | 1 | 1B060-026-7 | | x | W-0056BN |
| 1064 | 1S810-068 | 1 | 1B060-026-7 | | x | W-0056YE |
| 1066 | 1S810-070 | 1 | 1B060-022-2 | | x | W-0056WH |
| 1071 | 1S810-072 | 1 | | 6 | x | W-0056BE |
| 1072 | 1S810-102 | 1 | 1B060-034-4 | 2 | x | W-0056RE |
| 1073 | 1S810-103 | 1 | 1B060-034-4 | 2 | x | W-0056OE |

部 品 表　Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 602A | A1-17030FA | 1 | | 2 | o | |
| 601 | A1-17015FB | 2 | 1B660-005-8 | 8 | o△ | |
| 634 | A1-17018FB | 1 | | 12 | o | |
| 608A | A1-17022FC | 1 | 1B660-005-8 | 7 | o△ | |
| 608B | A1-17022FT | 1 | | 7 | o | Black |
| 602B | A1-17030FC | 1 | | 2 | o | Black |
| 603A | A1-17030FC | 5 | | 1 | o | |
| 624 | A1-20030BX | 2 | | 11 | o | |
| 605 | A1-20022FB | 3 | | 4 | o | |
| 604 | A1-20025FB | 1 | | 12 | o | |
| 606 | A1-20030FB | 5 | | 2,3 | o | |
| 607 | A1-20070FT | 1 | | 11 | o | |
| 609 | A2-17025FB | 1 | 1B660-005-8 | 10 | o△ | |
| 611 | A2-17030FB | 3 | | 12,14 | o | |
| 610A | A2-17025FC | 3 | | 12 | o | |
| 613 | B1-14015FB | 2 | 1B100-070-1 | 8 | o△ | |
| 614 | B1-14020FB | 2 | | 8 | o | |
| | | | | | | |
| 617 | B1-17025FA | 2 | 1B001-102-6 | 10,11 | o△ | |
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部 品 表　Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| 619 | B1-17035FA | 2 | 1B150-008-7 | 5<br>1 | o△ | |
| 636 | B1-17030FA | 3 | 1B150-008-7 | 1 | o△ | |
| 620 | B1-17040FA | 3 | | 8 | o | |
| 637 | B1-17020FB | 2 | | 8 | o | |
| 616 | B1-17022FB | 2 | 1B660-005-8 | 9 | o△ | |
| 618 | B1-17025FB | 1 | 1B660-005-8 | 10 | o△ | |
| 622 | B1-20025FA | 1 | | 12 | o | |
| 626 | B1-20050FA | 3 | 1B060-034-4 | 8,2 | o△ | |
| 658 | B1-20030FB | 1 | | 5 | o | |
| 625 | B1-20040FB | 1 | | 12 | o | |
| 627 | B1-20045FB | 2 | | 11 | o | |
| 629 | B2-20045FA | 1 | | 12 | o | |
| 635 | E1-20028FB | 1 | | 8 | o | |
| 631 | K2-14015FA | 3 | | 4 | o | |
| 632 | K2-14025FA | 2 | 1B060-026-7 | 5 | o△ | |
| 633 | K2-14025FB | 2 | 1B100-070-1 | 8 | o△ | |
| 573 | P1-10080SX | 1 | | 6 | o | |
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部 品 表 Parts list

FAA14001-R.3110.A

| 補助番号 Ckt.No. | 部品番号 Part No. | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivey | 備考 Remarks |
|---|---|---|---|---|---|---|
| G4 | 1G104-017 | 1 | 1B100-071 | | Δ | 35FB#G4 |
| G9 | 1G218-001-1 | 1 | 1B100-069-1 | | Δ | 35FB#G9 |
| G5 | 1G247-016 | 1 | 1B100-071 | | Δ | 35FB#G5 |
| G8 | 1G308-001 | 2 | 1B100-071 | | Δ | P33FB#G8 |
| G3 | 1G415-002 | 1 | | 8 | o | P33FB#G3 |
| G6 | 1G550-008-1 | 2 | 1B100-070-1 | 8 | oΔ | P33FB#G6 |
| G1 | 1G551-004-1 | 1 | 1B100-068-4 | 9 | oΔ | P33FB#G1 |
| G7 | 1G710-003 | 1 | 1B100-067-1 | | Δ | P33FB#G7 |
| G2 | 1G950-001 | 1 | | 8 | o | 35FB#G2-K |
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## [2] 部組品一覧表 Assembly List

FAA14001-P.3110.A

| 補助番号 Ckt. No. | 部組品番号 Assembly No. | 1台分個数 Pcs. per Unit | 構成部品番号 Constituent Parts | 参照図番 Figure | 備考 Remarks. |
|---|---|---|---|---|---|
| B011 | 1B001-085 | 2 | 1K100-034 , 1K044-001 | 11 | P33FB-#A2-1 |
| B017 | 1B001-086 | 1 | 1K240-049 , 1K370-192<br>1K600-087 | 13 | P33FB-#E2-1 |
| B100 | 1B001-090-2 | 1 | | 11 | |
| B103 | 1B001-091-2 | 1 | 1K610-175 , 1K370-200-1<br>1K314-055-1 , 1K115-193<br>1K240-052 , 1K240-051<br>1K680-104 , 1K115-194<br>1K230-025-1 , 1S810-059 | 12 | |
| B106 | 1B001-092 | 1 | 1K680-101 , 1K620-021×4<br>1K600-093 | 12 | |
| B303 | 1B001-098-1 | 1 | 1K208-009 , 1K370-241-1<br>1K220-041 , 1K600-104<br>1K370-242 , 1K060-003 | 9 | 35FB-#B6-6 |
| B306 | 1B001-099-1 | 1 | 1K620-032 , 1K370-244-1×4<br>1K240-068×2 | 9 | 35FB-B22-1 |
| B307 | 1B001-100 | 1 | 1K600-095 , 1K370-247<br>1K370-203 | 9 | |
| B322 | 1B001-102-6 | 1 | 1K610-192-1 , 1K314-059<br>1K366-013 , 1K640-191<br>1K314-060 , 1K314-062<br>1K370-210 , 1K314-063<br>1K370-211 , 1K370-212<br>1K260-008-1 , 1K370-213<br>1K260-010-2 , 1K260-011-1<br>1K370-214 , 1K370-216<br>1K314-065 , 1K366-012<br>1K370-220 , 1K370-245<br>1K370-246 , 1K230-029<br>1K050-050 , 1K370-215<br>1K060-003 , 1K060-004<br>1K120-052 , 1K314-064-1<br>1K230-030-1 , 1K225-043-1<br>1K225-044-2 , 1K230-032<br>1K230-033-1 , 1K230-034<br>1K115-196 , 1K600-096<br>1K050-020 , 1K680-106<br>1K115-197 , 1K050-024<br>B1-17025FA ,<br>1B260-002-1 , 1B314-053-2<br>1B314-054-1 | 10 | |

部組品一覧表 Assembly List

FAA14001-R.3110.A

| 補助番号 Ckt. No. | 部組品番号 Assembly No. | 1台分個数 Pcs. per Unit | 構成部品番号 Constituent Parts | 参照図番 Figure | 備考 Remarks. |
|---|---|---|---|---|---|
| B502 | 1B001-106-1 | 1 | 1K240-066 , 1K640-250-1<br>1K370-355-1 , | 5 | |
| B2201 | 1B001-127 | 1 | 1K370-367 , 1K130-097<br>1K220-039 , 1K050-074×2 | 4 | P33FB-#A21-6 |
| B2207 | 1B001-128-2 | 1 | 1K260-055-1 , 1K630-113<br>1K630-083 , 1K220-064<br>1K600-151 , 1K620-047<br>1K078-007×16 , | 4 | P33FB-#A7-1 |
| B2403 | 1B001-129-2 | 1 | 1K625-017-1 , 1K260-053<br>1K260-054 , 1K260-051<br>1K640-196 , 1K640-254<br>1K370-364 , 1K640-255<br>1K370-365×3 , 1K050-072<br>1K370-224 , 1K310-019<br>1K314-069 , 1K610-273<br>1K370-225 , 1K230-041<br>1K640-202 , 1K610-278<br>1K078-007×24 , 1K120-054<br>1K610-187 , 1K340-023 | 3 | P33FB-#A11-6 |
| B2404 | 1B001-130-1 | 1 | 1K610-272-1<br>1K370-366-1 | 3 | P33FB-#A13-6 |
| B2406 | 1B001-131 | 1 | 1K610-276 , 1K600-152<br>1K680-171 , 1K600-153<br>1K600-154 | 2 | P33FB-#K1-6 |
| B2203 | 1B001-132-1 | 1 | 1K370-368-1<br>1K230-044-1 | 3,4 | |
| B105 | 1B060-021 | 1 | 1K680-103 , 1K240-050<br>1K370-197 , 1K610-174<br>1S810-057 , 1S810-055 | 11 | |
| B311 | 1B060-022-2 | 1 | 1K680-107 , 1K240-056-1<br>1K240-057-1 , 1K600-097<br>1S810-070 | 9 | |
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部組品一覧表 Assembly List

FAA14001-R.3110.A

| 補助番号 Ckt. No. | 部組品番号 Assembly No. | 1台分個数 Pcs. per Unit | 構成部品番号 Constituent Parts | 参照図番 Figure | 備考 Remarks. |
|---|---|---|---|---|---|
| B510 | -1B060-026-7 | 1 | 1K010-017-2 , 1K370-233<br>1K277-003-1 , 1K260-017-1<br>1K245-001 , 1K640-206<br>1K240-062 , 1K620-022-1<br>1K150-010 , 1K078-008<br>1K267-002 , 1K267-001-1<br>1K201-012 , 1K470-003<br>1K220-043 , 1K160-183<br>1K470-005-1 , 1K120-055<br>1K248-003 , 1K260-018<br>1K314-072 , 1K277-004-1<br>1K160-195-1 , 1K120-056-1×2<br>1K240-061 , 1K010-016<br>1K340-025-1 , 1K610-193-1<br>, 1K370-234-1<br>1K370-235 , 1K260-019-1<br>1K370-237-2 , 1K370-236<br>1K630-089 , 1K680-111-1<br>1K370-232 , 1K240-063-1<br>1K233-015×6 , 1K240-072<br>1K115-200 , 1K640-205-1<br>1K248-002 , 1K246-005<br>1S705-002-1 , 1S322-003-1<br>1S810-065 , 1S705-003-1<br>1S810-067 , 1S810-066<br>K2-14025FA×2 , 1S810-068<br>1B470-001 , 1K240-071-2<br>1K001-012 | 5 | |
| B1002 | 1B060-027-3 | 1 | 1K610-200 , 1K610-204<br>1K680-124 , 1S237-002<br>1S705-004-1 , 1S260-004-1<br>1S250-002×2 , 1S310-010<br>1S310-009 , 1S310-012<br>1S310-011 , 1S322-007×2<br>1S322-006 , 1S340-006<br>1S340-009 1S340-008<br>1S340-007<br>1S335-011 | 8 | |

部組品一覧表 Assembly List

FAA14001-R.3110.A

| 補助番号 Ckt. No. | 部組品番号 Assembly No. | 1台分個数 Pcs. per Unit | 構成部品番号 Constituent Parts | 参照図番 Figure | 備考 Remarks. |
|---|---|---|---|---|---|
| B2408B | 1B060-051-3 | 1 | 1K146-018 1B060-034-4 (1K146-017を除く. exception:1K146-017), | 2 | Black |
| B2408A | 1B060-034-4 | 1 | 1K610-274-1 , 1K340-040<br>1K370-369 , 1K370-370<br>1K370-371×2 , 1K314-106<br>1K370-372 , 1K001-012<br>1K146-017 , 1K640-253<br>1K150-008 , 1K230-039<br>1K680-169 , 1K610-270<br>1K314-080 , 1K230-079<br>1K610-275×6 , 1K610-277-1<br>1K470-011 , 1K230-076<br>1K150-017 , 1K330-007<br>1K260-049 , 1K260-050<br>1K610-267-1 , 1K314-105<br>1K230-077 , 1K610-268<br>1K275-009-1 , 1K480-005<br>1K060-013-1 , 1S705-009<br>1S810-102 , 1S810-103<br>1B001-131 , 1B206-004<br>1S810-060 B1-20050FA<br>1K123-051 | 2 | |
| B025 | 1B100-067-1 | 1 | 1K233-014 1K400-076-1<br>1G710-003 | 1 | P33FB-#C4 |
| B310 | 1B100-068-4 | 1 | 1K610-177 1K240-054<br>1K240-055 1K370-217<br>1K115-220 1K600-094-1×2<br>1K370-205-2 1K370-204×4<br>1G551-004-1 | 9 | |
| B314A | 1B100-069-1 | 1 | 1K080-006<br>1G218-001-1 | 7 | 33FB-#B30-1 |
| B327 | 1B100-070-1 | 1 | 1K610-201 1K610-202<br>1G550-008-1×2, B1-14015FB×2 K2-14025FB×2 | 8 | 33FB-#N1 |
| B328 | 1B100-071 | 1 | 1K680-113 1K610-205×2<br>1K610-206 1K576-027×2<br>1K240-069 1K240-070<br>1K010-018×2 1G104-017<br>1G308-001×2 1G247-016 | 8 | 35FB-#N4 |
| B314B | 1B100-072-1 | 1 | 1K080-007<br>1G218-001-1 | 7 | 33FB-#B30-1 Black |
| | | | | | |

| 補助番号 Ckt. No. | 部組品番号 Assembly No. | 1台分個数 Pcs. per Unit | 構成部品番号 Constituent Parts | 参照図番 Figure | 備考 Remarks. |
|---|---|---|---|---|---|
| B2026A | 1B150-008-7 | 1 | 1K620-018-1　1K115-180<br>1K630-080　1K640-190<br>1K370-363　1K040-001-1<br>1K115-293　1K400-077-1<br>1K220-036　1K625-007-1<br>1K400-079-1　1K640-189-1<br>1K248-001　1K115-181<br>1K406-012-1　1K240-045<br>1K240-046　1K360-007<br>1K610-166　1K030-001<br>1K206-002　1K160-180<br>1K160-181　1K160-182<br>B1-17035FA　1S005-002<br>1B240-003　1B680-006-1<br>B1-17030FA×3　1B100-067-1<br>1K115-297 | 1 | |
| B2026B | 1B150-009-7 | 1 | 1K620-034-1　1K400-082<br>1K240-073<br>1B150-008-7 (1K620-018-1<br>1K400-079-1, 1K240-045 を除く.<br>exeception:1K620-018-1<br>1K240-045,1K400-079-1) | 1 | Black |
| B305 | 1B206-002-1 | 1 | 1K610-178-1 | 9 | 35FB-#309 |
| B324 | 1B206-003 | 1 | 1K625-006 | 8 | |
| B407 | 1B206-004 | 1 | 1K206-001　1K610-185<br>1K680-110　1K010-019×2 | 1 | 35FB-#P3-1 |
| B023 | 1B240-003 | 1 | 1K240-047 | 1 | P33FB-#71-1 |
| B319 | 1B260-002-1 | 1 | 1K640-192　1K260-009-1 | 10 | |

| 補助番号 Ckt. No. | 部組品番号 Assembly No. | 1台分個数 Pcs. per Unit | 構成部品番号 Constituent Parts | | 参照図番 Figure | 備考 Remarks. |
|---|---|---|---|---|---|---|
| B206A | 1B300-007 | 0~1 | 1K625-008<br>1K630-087 | 1K370-227<br>1K600-101 | 4 | P33FB-#A10A |
| B206B | 1B300-008-2 | 0~1 | 1K625-008-1<br>1K630-087 | 1K370-227<br>1K600-102-1 | 4 | P33FB-#A10B |
| B206C | 1B300-009 | 0~1 | 1K625-009<br>1K630-087 | 1K370-227<br>1K600-101 | 4 | P33FB-#A10C |
| B206D | 1B300-010-2 | 0~1 | 1K625-009-1<br>1K630-087 | 1K370-227<br>1K600-102-1 | 4 | P33FB-#A10D |
| B312 | 1B310-019 | 1 | 1K370-195<br>1K600-088 | | 8 | |
| B313 | 1B310-020 | 1 | 1K310-020<br>1K370-238 | | 9 | |
| B027 | 1B314-049 | 1 | 1K625-010<br>1K370-240 | 1K201-014 | 6 | 35FB-#H1-1 |
| B104 | 1B314-051 | 1 | 1K314-054 | 1K370-198<br>1K370-199 | 4 | |
| B304 | 1B314-052-1 | 1 | 1K314-057-1<br>1K370-206 | | 9 | |
| B320 | 1B314-053-2 | 1 | 1K314-061-1<br>1K370-218<br>1K115-195 | 1K370-208<br>1K366-011-1 | 10 | |
| B321 | 1B314-054-1 | 1 | 1K314-058<br>1K370-209 | 1K370-207-1 | 10 | |
| B2101 | 1B314-056-2 | 1 | 1K314-104-1<br>1K680-097-1<br>1K600-086 | 1K366-010<br>1K240-048 | 11 | |
| B204 | 1B340-001-2 | 1 | 1K640-201-1<br>1K640-202 | 1K640-196<br>1K078-007×8 | 4 | P33FB-#A14 |
| B012 | 1B400-001-1 | 1 | 1K400-016-1<br>1K370-042 | 1K370-043 | 6 | S-8504 |
| B030 | 1B467-007-1 | 1 | 1K467-017-1 | 1K630-082 | 12 | P33FB-#P5 |
| B508 | 1B470-001 | 1 | 1K470-004<br>1K625-011 | 1K640-207 | 5 | |
| B019A | 1B620-008-2 | 1 | 1K620-019<br>1K640-188<br>1K060-005-1 | 1K640-187<br>1K370-189 | 12 | P33FB-#D-1 |
| B700 | 1B610-012-2 | 1 | 1K610-269-1<br>1K115-323-1 | 1K115-322 | 14 | |

部組品一覧表 Assembly List

FAA14001-R.3110.A

| 補助番号 Ckt. No. | 部組品番号 Assembly No. | 1台分個数 Pcs. per Unit | 構成部品番号 Constituent Parts | | 参照図番 Figure | 備考 Remarks. |
|---|---|---|---|---|---|---|
| B019B | 1B620-010-1 | 1 | 1K620-035<br>1K640-188<br>1K060-005-1 | 1K640-187<br>1K370-189 | | P33FB-#D-1<br>Black |
| B2016 | 1B620-014-2 | 1 | 1K620-046-2<br>1K600-079<br>1K370-177×2<br>1K610-280<br>1K362-014<br>1K370-181×3<br>1K680-098-1<br>1K115-154<br>1K115-156<br>1K123-034 | 1K370-193×4<br>1K370-176-1<br>1K240-033-1<br>1K370-179-1×2<br>1K610-163<br>1K362-007-1<br>1K115-301<br>1K115-155<br>1K115-157×2<br>1K220-031 | 13 | |
| B2202 | 1B630-009 | 1 | 1K630-116<br>1K640-256 | 1K630-115 | 4 | P33FB-#A8 |
| B315 | 1B640-011-1 | 1 | 1K640-208-1<br>1K115-201 | | 7 | |
| B323A | 1B660-005-8 | 1 | 1K660-015-1<br>1K115-191<br>1K404-030<br>K220-042<br>1K115-233×3<br>1K620-033<br>1K230-028<br>1K050-019<br>1K230-031-2<br>1K600-099<br>1K123-038<br>1K130-067<br>1K123-042×4<br>A1-17015FB×2<br>A2-17025FB<br>B1-17025FB<br>1B001-098-1<br>1B206-002-1<br>1B001-100<br>1B060-022-2<br>1B100-069-1<br>1B001-102-6<br>1K050-029~1K050-048<br>1K640-261 | 1K115-187<br>1K610-170<br>1K240-065-1<br>1K630-090<br>1K240-067<br>1K115-203<br>1K120-051<br>1K130-058<br>1K050-022<br>1K230-035<br>1K123-039×4<br>1K120-092<br>A1-17022FC<br>B1-17022FB×2<br>1B314-052-1<br>1B001-099-1<br>1B100-068-4<br>1B310-019<br>1B640-011-1<br>1B206-003 | 7<br>8<br>9 | |

## 部組品一覧表 Assembly List

FAA14001-R.3110.A

| 補助番号 Ckt. No. | 部組品番号 Assembly No. | 1台分個数 Pcs. per Unit | 構成部品番号 Constituent Parts | 参照図番 Figure | 備考 Remarks. |
|---|---|---|---|---|---|
| B323B | 1B660-006-8 | 1 | 1K120-064 1B100-072-1<br>1B660-005-3 (1K120-092, 1B100-069-1 を除く.<br>exception: 1K120-092, 1B100-069-1) | 7<br>.<br>8<br>.<br>9 | Black |
| B022 | 1B680-006-1 | 1 | 1K380-007 1K370-191 | 1 | 35FB-#66 |
| B1003 | 1S005-002 | 1 | 1S705-005 1S260-005 | 1 | |
| B2102 | 1S007-010 | 1 | 1S700-009 1S810-064 | 11 | |

FAA14002-R. 3110. A

FAA140FC

# NIKON New FM2

ニコン New FM2

## PARTS LIST

部 品 表

NIPPON KOGAKU K.K.

Tokyo, Japan

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部 品 表 Parts list (New FM2) FAA14002 - R.3110.A

| 部品番号 Part No. | 補助番号 Ckt. No. | 名称 Name | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivery | 備考 Remarks | |
|---|---|---|---|---|---|---|---|---|
| 1K050-152 | 3578 | Washer | 2 | 1B060-159-7 | | ○△ | | |
| 1K115-480 | 370 | 植毛シート<br>Baffle sheet | 1 | 1B060-089-8<br>1B660-026<br>1B660-027 | | ○△ | | |
| 1K115-592 | 2480 | テープ<br>Tape | 1 | | | ○ | | |
| 1K130-174-1 | 3538 | 管制部ネジ<br>Screw shutter control unit | 1 | | | ○ | | |
| 1K130-176 | 2473 | Screw | 1 | 1B060-167-9 | | ○△ | FE2 | |
| 1K230-076-2<br>(1K230-076) | 2190 | カウンターバネ<br>Counter spring | 1 | 1B060-167-9 | | ○△ | FE2 | |
| 1K240-118-2<br>(1K240-118-1) | 49A | シューバネ 白<br>Shoe contact spring | 1 | 1B150-024-2 | | ○△ | FE2 | (4) |
| 1K240-215-1<br>(1K240-215-2) | 49B | シューバネ 黒<br>Shoe contact spring | 1 | 1B150-025-2 | | ○△ | FG | (4) |
| 1K275-026-2 | 2199 | 枚数計ギヤ<br>Counter Gear | 1 | 1B060-167-9 | | ○△ | FE2 | |
| 1K406-014 | 48 | ホットシュー<br>Hot shoe contact | 1 | 1B150-024-2<br>1B150-025-2 | | ○△ | FE2 | (4) |
| 1K470-033 | 3532 | ASA 目盛環<br>ASA calibration disk | 1 | 1B060-159-7 | | ○△ | | |
| 1K475-158-1 | 2188 | 枚数計<br>Frame counter dial | 1 | 1B060-167-9 | | ○△ | FE2 | |
| 1K610-489 | 3555 | ラグ板<br>Lug | 1 | | | ○ | | |
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部 品 表 Parts list

FAA14002- R.3110.A

| 部品番号 Part No. | 補助番号 Ckt. No. | 名称 Name | 1台分個数 Pcs.per Unit | 部組品番号 Assembly | 参照図番 Figure | 販売区分 Term of Delivery | 備考 Remarks |
|---|---|---|---|---|---|---|---|
| 1S810-353 | 3560 | リード線<br>Lead wire | 1 | 1B060-159-7 | | ○△ | |
| 1G950-004-1<br>(1G950-004) | G2 | 焦点板<br>Fressnel screen | 1 | | | ○ | FE2 |
| 1K640-261 | | Ring | | | | F250- | NO8755-U |
| 1K999-048 | | PLATE | | ZM2-890059 | | 0.08 | NO.800 / |
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部組品一覧表　Assembly List

FAA14002 - R.3110.A

| 部組品番号 Assembly No. | 補助番号 Ckt. No. | 名称 Name | 1台分個数 Pcs.per Unit | 構成部品番品 Constituent Parts | 参照図番 Figure | 備考 Remarks |
|---|---|---|---|---|---|---|
| Depleted 1B001-380-1 (1B001-380) OLD | B100 | シャッター Shutter → NEW. 1B001-946 | 1 | | 第5図 NO.8426 ¥4480- | 9430 |
| 1B001-265-1 (1B001-265) | B3382 | 遮光板 Light baffle plate | 1 | 1K115-460 ,1K115-461<br>1K115-462 ,1K370-483-1<br>1K370-485 ,1K610-379 | | FE2 |
| 1B060-089-8 (1B060-089-2) | B3300 | 横基板 Mirror box mechanism | 1 | 1K050-020 ,1K050-024<br>1K050-050 ,1K050-132<br>1K060-003 ,1K060-004<br>1K115-196 ,1K115-480<br>1K120-029-1,1K120-052<br>1K225-043-2,1K225-044-2<br>1K230-029 ,1K230-030-3<br>1K230-032 ,1K230-033-1<br>1K230-034 ,1K260-008-5<br>1K260-010-2,1K260-011-2<br>1K314-059 ,1K314-060<br>1K314-062 ,1K314-063<br>1K314-064-1,1K314-065-1<br>1K366-012 ,1K366-013-1<br>1K370-210-1,1K370-211-1<br>1K370-212 ,1K370-213-1<br>1K370-214-1,1K370-215-2<br>1K370-216-1,1K370-220<br>1K370-245-2,1K370-246-1<br>1K600-096 ,1K610-192-2<br>1K640-191 ,1K680-106<br>1B260-002-1,1B314-053-2<br>1B314-112 , | | |
| 1B001-313-6 | | UNIT, FILM ADVANCE MECHANISM | | | ¥450 NO.8425 | |
| (DEP) 1B001-604 1B001-604-1 | | SPOOL TOP GEAR | | | | 9037 NO.8721 |
| | | | | | | |
| * 1B001-946 | | — ALUMINUM — SHUTTER UNIT | | ¥35.77 NO.8937 | | |
| * 1B999-344 | | — ALUMINUM - OPENING CURTAIN | | ¥7.62 NO.8937 | | |
| * 1B999-345 | | — ALUMINUM - CLOSING CURTAIN | | ¥7.62 NO.8937 | | |
| 1B999-018 | | 先幕 opening curtain | | | NO 8431 | $4- |
| 1B999-019 | | 後幕 closing curtain | | | NO8431 | $4- |
| 1K999-011 | | 中間板A | | FE2. FA¥共用 ¥380- | NO8549 | |
| 1K999-012 | | 中間板B | | ¥340- | NO8549 | |
| 1K999-009 | | カバー板 | | FM2¥共用 ¥200- | NO8549 | |
| 1K999-013 | | 遮光板 | | ¥230- | NO8549 | |

部組品一覧表 Assembly List

FAA14002 - R.3110.A

| 部組品番号 Assembly No. | 補助番号 Ckt. No. | 名称 Name | 1台分個数 Pcs.per Unit | 構成部品番品 Constituent Parts | 参照図番 Figure | 備考 Remarks |
|---|---|---|---|---|---|---|
| 1B060-159-7 (1B060-159-3) | B510 | 管制部<br>Shutter control unit<br>¥250 | 1 | 1K010-050 ,1K078-008<br>1K050-152 x2<br>1K115-393 ,1K115-657<br>1K115-671 ,1K120-055<br>1K120-056-1x2<br>1K120-156 ,1K150-010<br>1K146-037 x2<br>1K160-183 ,1K160-195-1<br>1K201-012 ,1K220-043<br>1K233-015x6,1K240-078<br>1K240-062-3,1K240-063-1<br>1K240-071-4,1K240-072<br>1K240-119-3,1K240-275-1<br>1K240-276 ,1K240-277<br>1K240-279-2,1K245-001<br>1K248-003-1,1K260-069-1<br>1K260-017-2,1K260-018-1<br>1K260-019-2,1K267-002<br>1K277-003-2,1K300-045-2<br>1K314-072-1,1K340-066<br>1K340-067 ,1K370-233<br>1K370-234-1,1K370-235<br>1K370-236 ,1K370-237-2<br>1K370-595 ,1K370-596<br>1K370-597-1,1K470-005-3<br>1K470-033 ,1K610-193-4<br>1K620-087 ,1K630-089-2<br>1K640-380 ,1K640-381-2<br>1K680-314 ,1S322-003-1<br>1S705-033 ,1S705-034<br>1S810-065 ,1S810-067<br>1S810-068 ,1S810-351<br>1S810-352 ,1S810-353<br>G1-14025FT ,1B470-005 | | |
| 1B060-167-9 (1B060-167-3) | B2408 | 上地板<br>Unit, film-advance lever | 1 | 1K001-012 ,1K050-058<br>1K123-051 ,1K130-176<br>1K150-008 ,1K275-026-2<br>1K230-076-2,1K230-077<br>1K230-108 ,1K260-050-1<br>1K260-078 ,1K314-080<br>1K314-105-1,1K314-106-1<br>1K340-026 ,1K340-040-3<br>1K370-371 x2<br>1K370-519-1,1K370-520-1<br>1K475-158-1,1K480-005<br>1K610-267-3,1K610-270<br>1K610-275 x6<br>1K610-277-2,1K610-413-3<br>1K640-253 ,1K680-169-2<br>1S705-009-3,1S810-060<br>1S810-102 ,1S810-103 | | |
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部組品一覧表 Assembly List

FAA14002 - R.3110.A

| 部組品番号 Assembly No. | 補助番号 Ckt. No. | 名称 Name | 1台分個数 Pcs.per Unit | 構成部品番品 Constituent Parts | 参照図番 Figure | 備考 Remarks |
|---|---|---|---|---|---|---|
| 1B100-138-2 (1B100-138-1) | B3301 | チリ取り<br>Mirror holder | 1 | 1K115-220-3,1K240-054<br>1K115-391-1,1K240-055<br>1K370-204 x4<br>1K370-217 ,1K370-499<br>1K600-094-1x2<br>1K610-177 ,1G551-004-1 | | |
| 1B150-024-2 (1B150-024) | B2026A | 上蓋<br>Top cover | 1 | 1K030-001 ,1K040-001-1<br>1K115-180 ,1K115-181<br>1K115-293 ,1K160-180<br>1K160-181 ,1K160-182<br>1K206-002 ,1K220-036-1<br>1K233-014 ,1K240-046-1<br>1K240-118-2,1K248-001<br>1K360-007 ,1K370-363-1<br>1K400-076-1,1K400-077-1<br>1K400-079-1,1K406-014<br>1K610-166 ,1K620-089<br>1K625-007-2,1K630-080<br>1K640-189-1,1K640-190-1<br>B1-17035FA ,1G710-003<br>1S005-002 ,1B680-006-4<br>B1-17030FAx3 | | |
| 1B150-025-2 (1B150-025) | B2026B | 上蓋 (黒)<br>Top cover (black) | 1 | 1K030-001 ,1K040-001-1<br>1K115-180 ,1K115-181<br>1K115-293 ,1K160-180<br>1K160-181 ,1K160-182<br>1K206-002 ,1K233-014<br>1K220-036-1,1K240-215-1<br>1K240-046-1,1K248-001<br>1K360-007 ,1K370-363-1<br>1K400-076-1,1K400-077-1<br>1K400-082 ,1K406-014<br>1K610-166 ,1K620-094<br>1K625-007-2,1K630-080<br>1K640-189-1,1K640-190-1<br>1S005-002 ,1G710-003<br>B1-17030FAx3<br>B1-17035FAx3<br>1B240-003 ,1B680-006-4 | | |
| 1B470-005 | B508 | X250<br>シャッター目盛<br>Shutter speed disk | 1 | 1K470-032 ,1K625-011-1<br>1K640-207 | | |
| 1B001-946 | | SHUTTER (ALM) | | $25.17- | | NO 900/ |
| 1B999-344 | | SHUTTER OPENING CURTAIN (ALM) | | $ 7.62- | | NO900/ |
| 1B999-345 | | SHUTTER CLOSING CURTAIN (ALM) | | $ 7.62- | | NO900/ |

| 部組品番号 Assembly No. | 補助番号 Ckt. No. | 名称 Name | 1台分個数 Pcs.per Unit | 構成部品番品 Constituent Parts | 参照図番 Figure | 備考 Remarks |
|---|---|---|---|---|---|---|
| 1B660-026<br>(1B660-015-4) | B323A | 前 板<br>Front plate unit | 1 | 1K050-019 ,1K050-022<br>1K050-029 ～ 1K050-048<br>1K050-112 ,1K050-144<br>1K115-187 ,1K115-191-1<br>1K115-203<br>1K115-233 x2<br>1K120-051-1,1K120-092<br>1K123-038 ,1K123-039x4<br>1K123-042 x2<br>1K130-058-1,1K220-042<br>1K230-028 ,1K230-031-2<br>1K230-035-1,1K240-065-1<br>1K240-067-1,1K404-030-1<br>1K600-099 ,1K610-170<br>1K620-033-1,1K630-090<br>1K640-261-1,1K660-033-1<br>A1-17015FBx2<br>A1-17022FC ,A2-17025FB<br>B1-17022FBx2<br>B1-17025FB ,B1-17040FAx2<br>1B001-098-2,1B001-099-2<br>1B001-265-1,1B001-432<br>1B060-022-4,1B060-089-8<br>1B100-069-2,1B100-138-1<br>1B206-002-1,1B206-003-1<br>1B310-019 ,1B314-052-1<br>1B640-011-2 | | |
| 1B660-027-1<br>(1B660-016-4) | B323B | 前 板 (黒)<br>Front plate unit (black) | 1 | 1K050-019 ,1K050-022<br>1K050-029 ～ 1K050-048<br>1K050-144 ,1K115-187<br>1K115-191-1,1K115-203<br>1K115-233 x2<br>1K120-051-1,1K120-064<br>1K123-038 ,1K130-058-1<br>1K123-039 x4<br>1K123-042 x2<br>1K220-042 ,1K230-028<br>1K230-031-2,1K230-035-1<br>1K240-065-1,1K240-067-1<br>1K404-030-1,1K600-099-1<br>1K610-170 ,1K620-033-1<br>1K630-090 ,1K640-261-1<br>1K660-033-1<br>A1-17015FBx2,A1-17022FT<br>A2-17025FB,B1-17022FBx2<br>B1-17025FB,B1-17040FAx2<br>1B001-098-2,1B001-099-2<br>1B001-265-1,1B001-432<br>1B060-022-4,1B060-089-8<br>1B100-072-4,1B100-138-1<br>1B206-002-1,1B206-003-1<br>1B310-019 ,1B314-052-1<br>1B640-011-2 | | |
| 1B680-006-5<br>(1B680-006-4) | B022 | シュー座モールド<br>Shoe mount mold | 1 | 1K380-014-1,1K370-191-2 | | |

半田づけの注意は他のボディに準ずる

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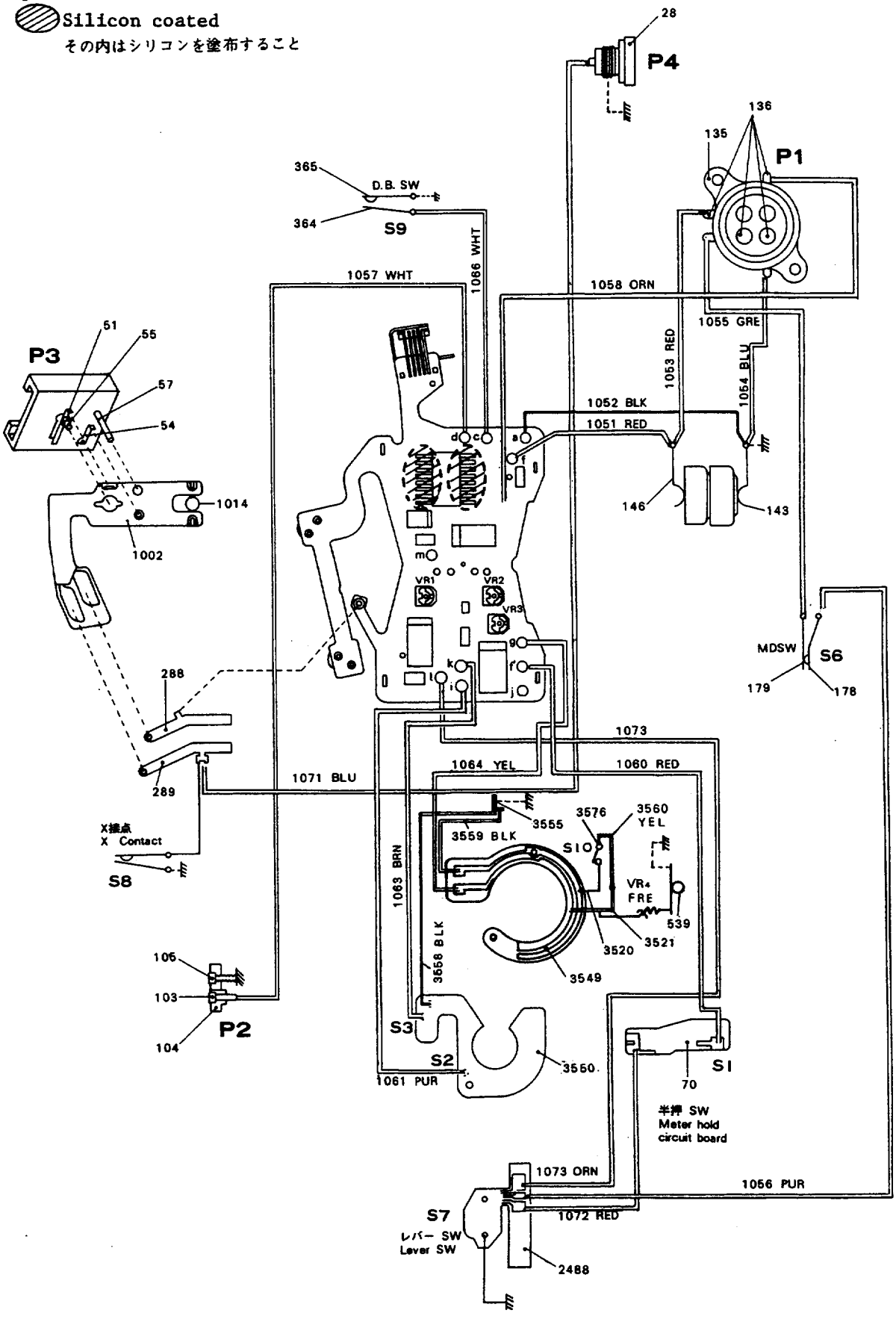
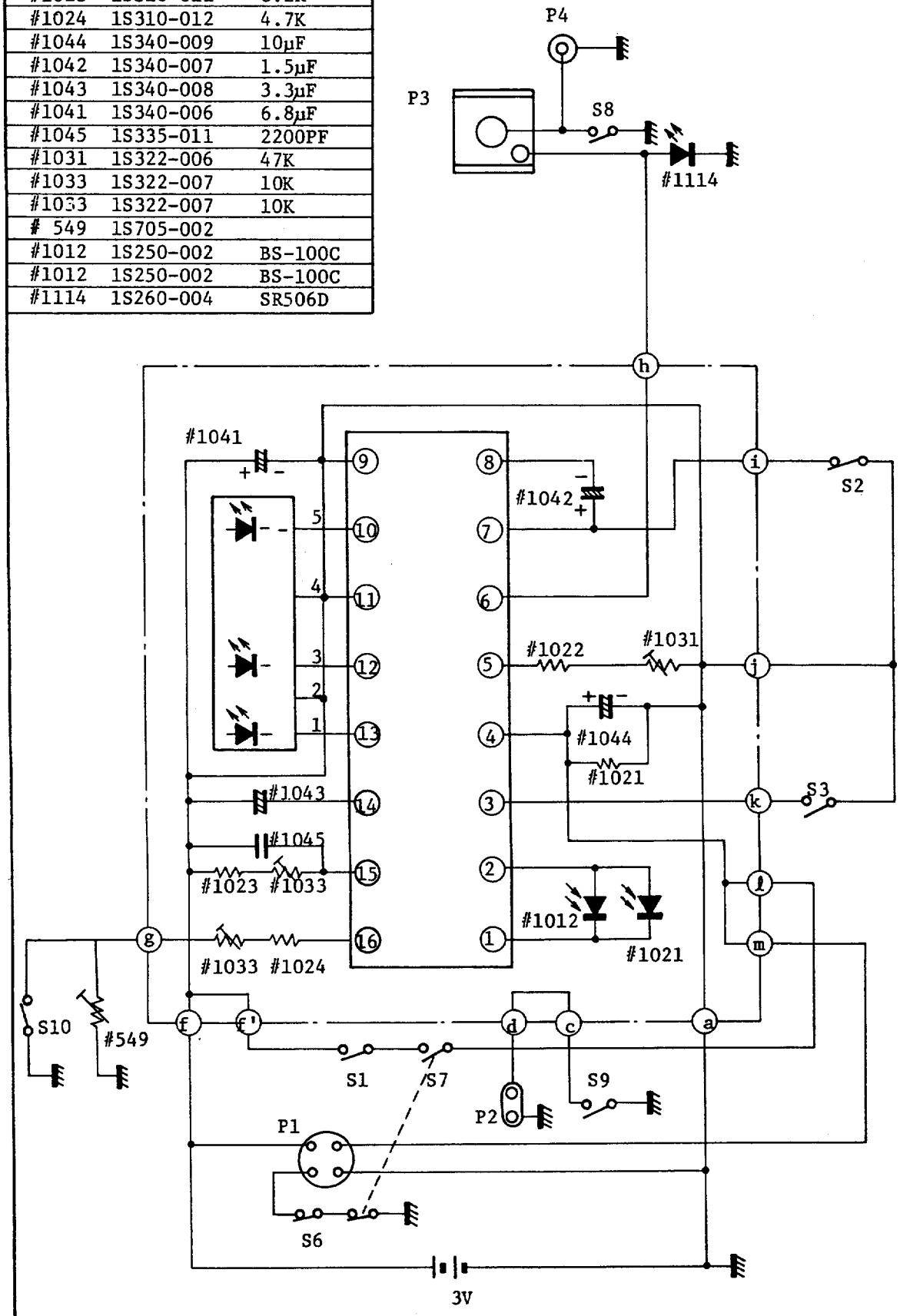


| | | |
|---|---|---|
| #1021 | 1S310-009 | 3.3M |
| #1022 | 1S310-010 | 39K |
| #1023 | 1S310-011 | 8.2K |
| #1024 | 1S310-012 | 4.7K |
| #1044 | 1S340-009 | 10μF |
| #1042 | 1S340-007 | 1.5μF |
| #1043 | 1S340-008 | 3.3μF |
| #1041 | 1S340-006 | 6.8μF |
| #1045 | 1S335-011 | 2200PF |
| #1031 | 1S322-006 | 47K |
| #1033 | 1S322-007 | 10K |
| #1033 | 1S322-007 | 10K |
| # 549 | 1S705-002 | |
| #1012 | 1S250-002 | BS-100C |
| #1012 | 1S250-002 | BS-100C |
| #1114 | 1S260-004 | SR506D |



FAA14132-R. 3345. B

| 作成承認印 | 配布許可印 |
| --- | --- |
| ニコンカメラサービス部 GM | パーツセンター M |

# Nikon New FM2/T

## PARTS LIST (REVISED-1)

## 修理部品表 (改 訂-1)

Nikon | NIKON CORPORATION
Tokyo, Japan

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Feb. 17. 1994

Printed in Japan February

# 上カバー部 Top cover

FM2／T

FAA14132 - R. 3345. A

No. xx or Bxx --- Part Number of New FM2
補助番号(Ckt No.)

No. 1Kxxx-xxx
1Bxxx-xxx
} Part Number of New FM2/T & FM2/T

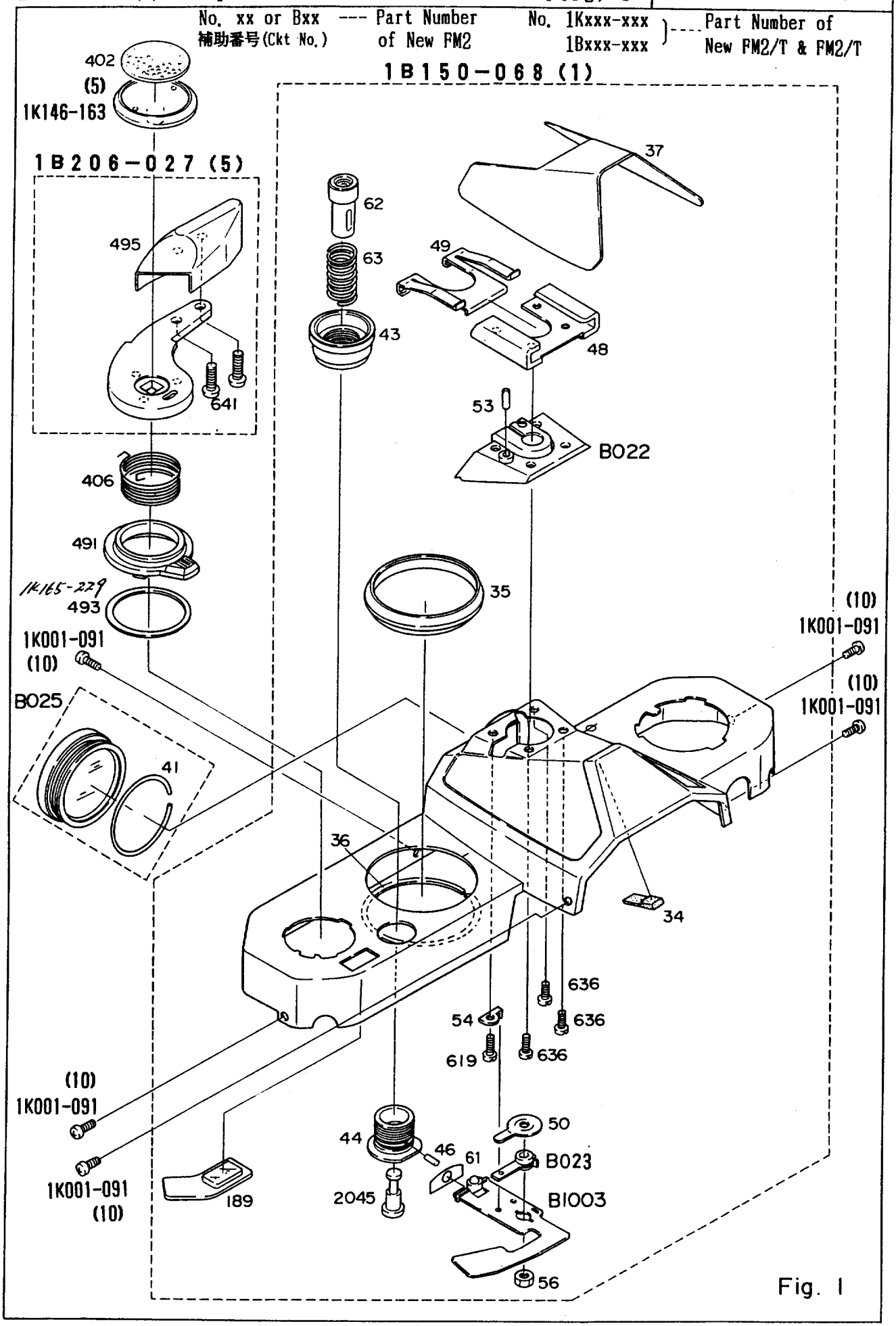



Fig. 1

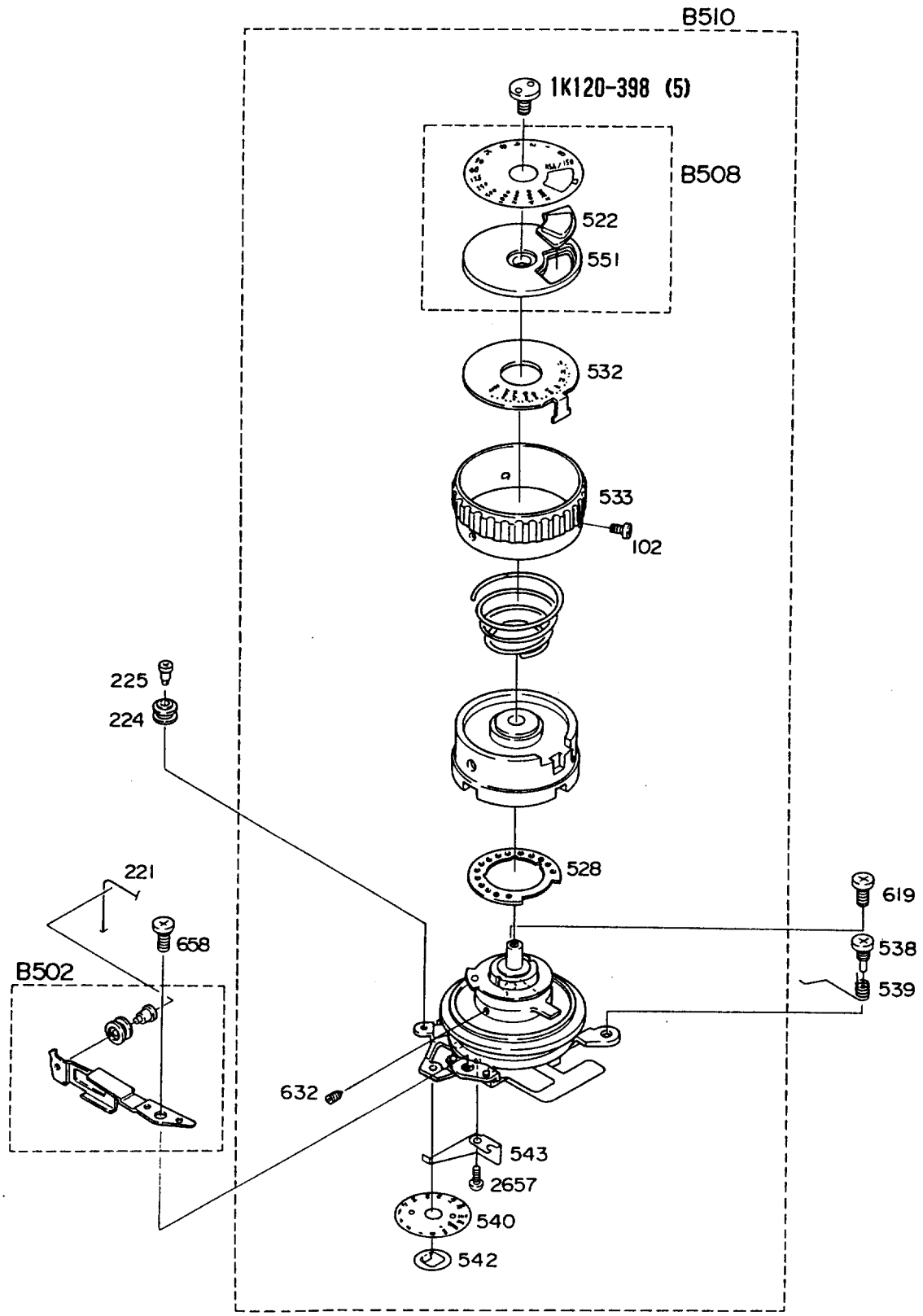

B510
1K120-398 (5)
B508
522
551
532
533
102
225
224
221
658
B502
528
619
538
539
632
543
2657
540
542

Fig. 5

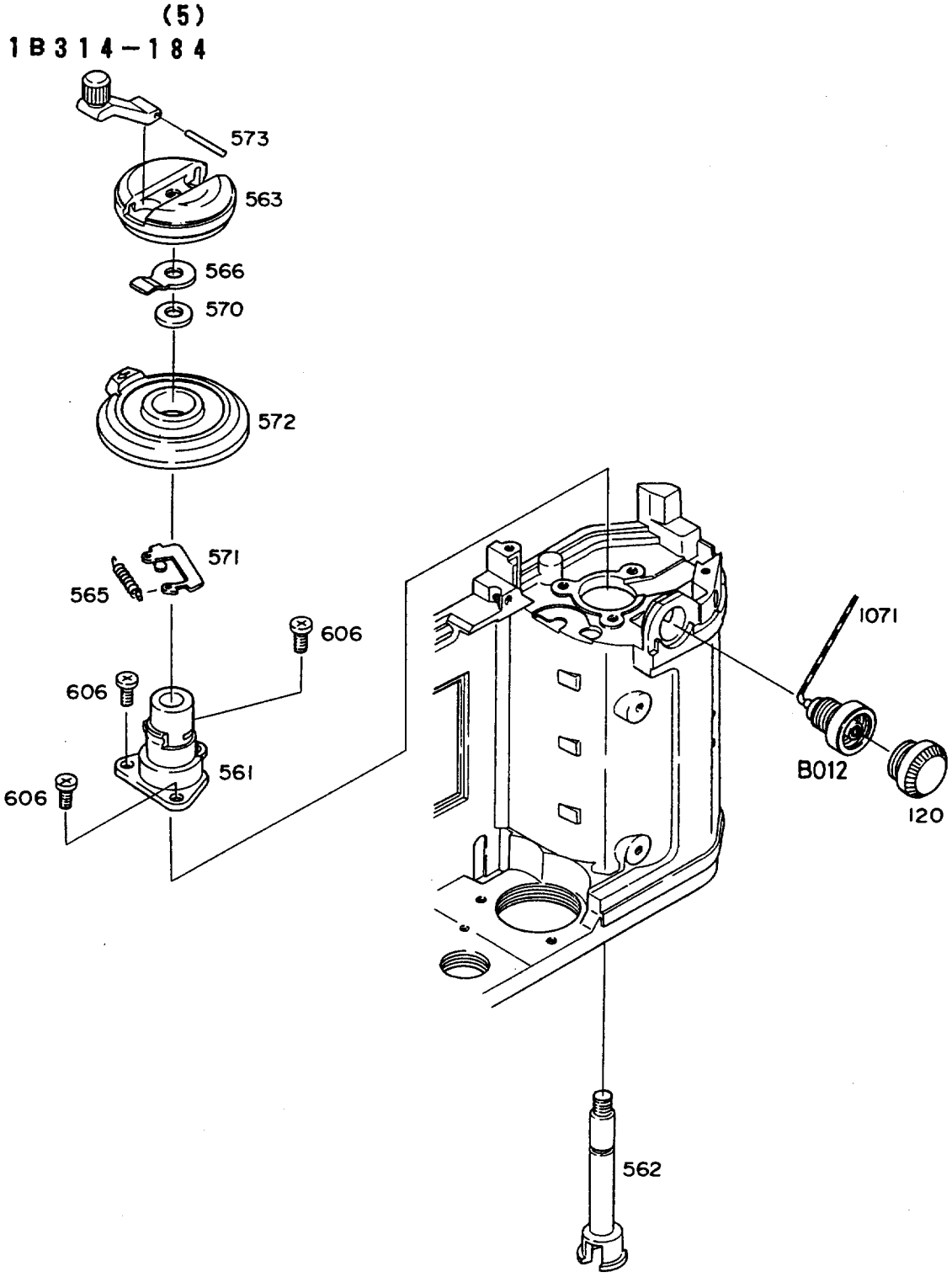

(5)
1B314-184
573
563
566
570
572
571
565
606
606
606
561
562
1071
B012
120

Fig. 6

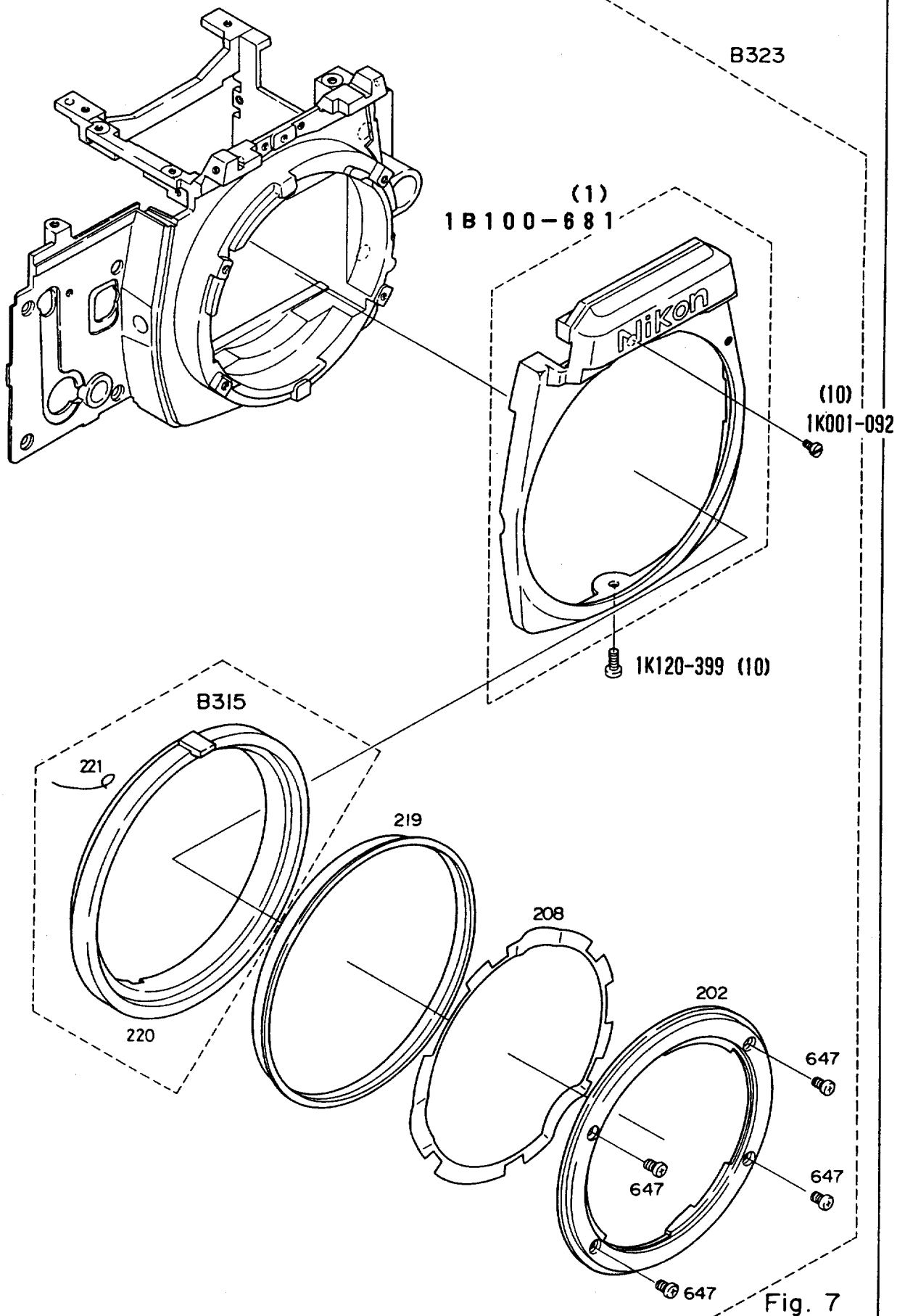

B323
(1)
1B100-681
Nikon
(10)
1K001-092
1K120-399 (10)
B315
221
219
208
202
220
647
647
647
647

Fig. 7

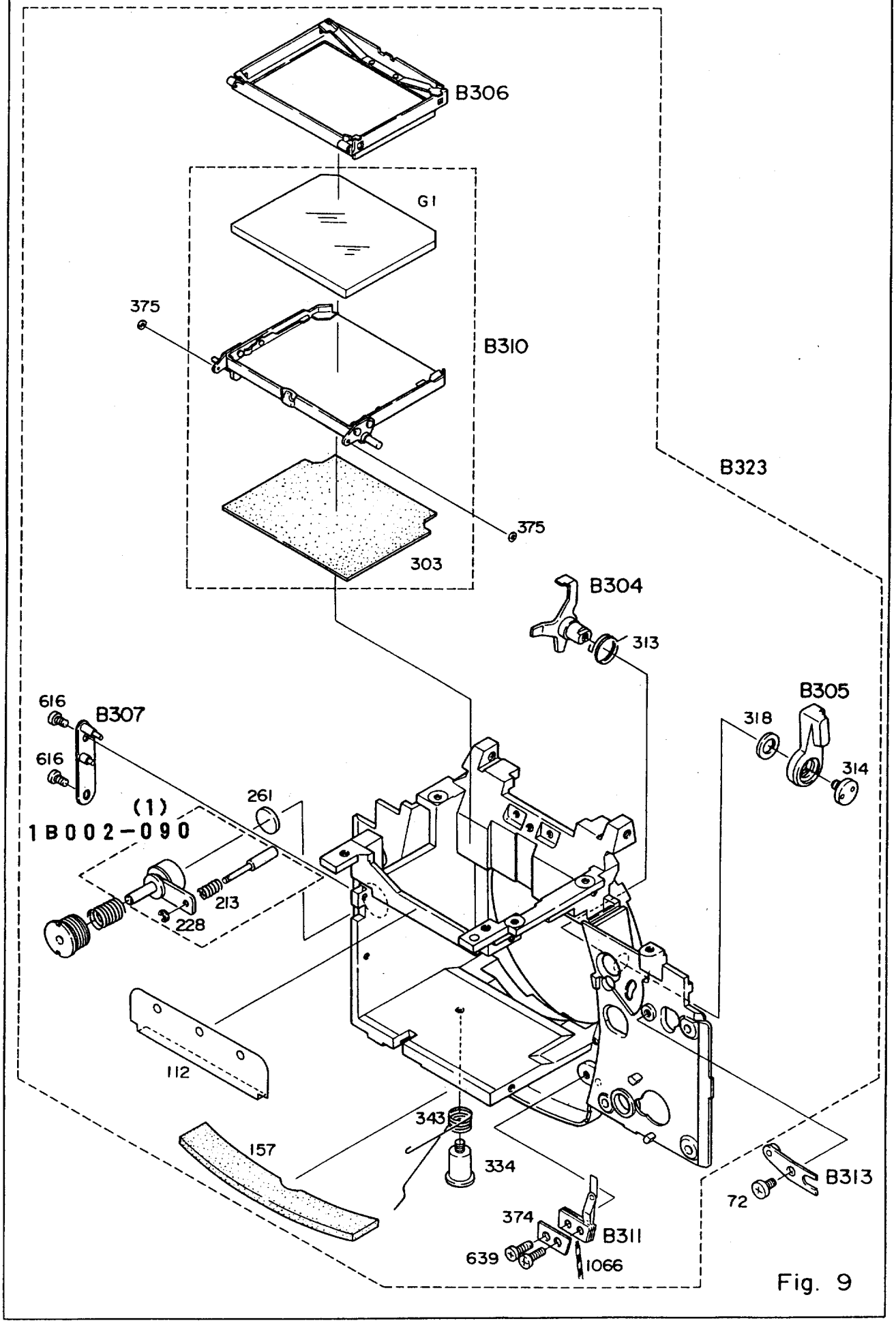

B306
G1
375
B310
375
303
B323
B304
313
B305
318
314
616
B307
616
261
(1)
1B002-090
213
228
112
343
334
157
374
B311
639
1066
72
B313

Fig. 9

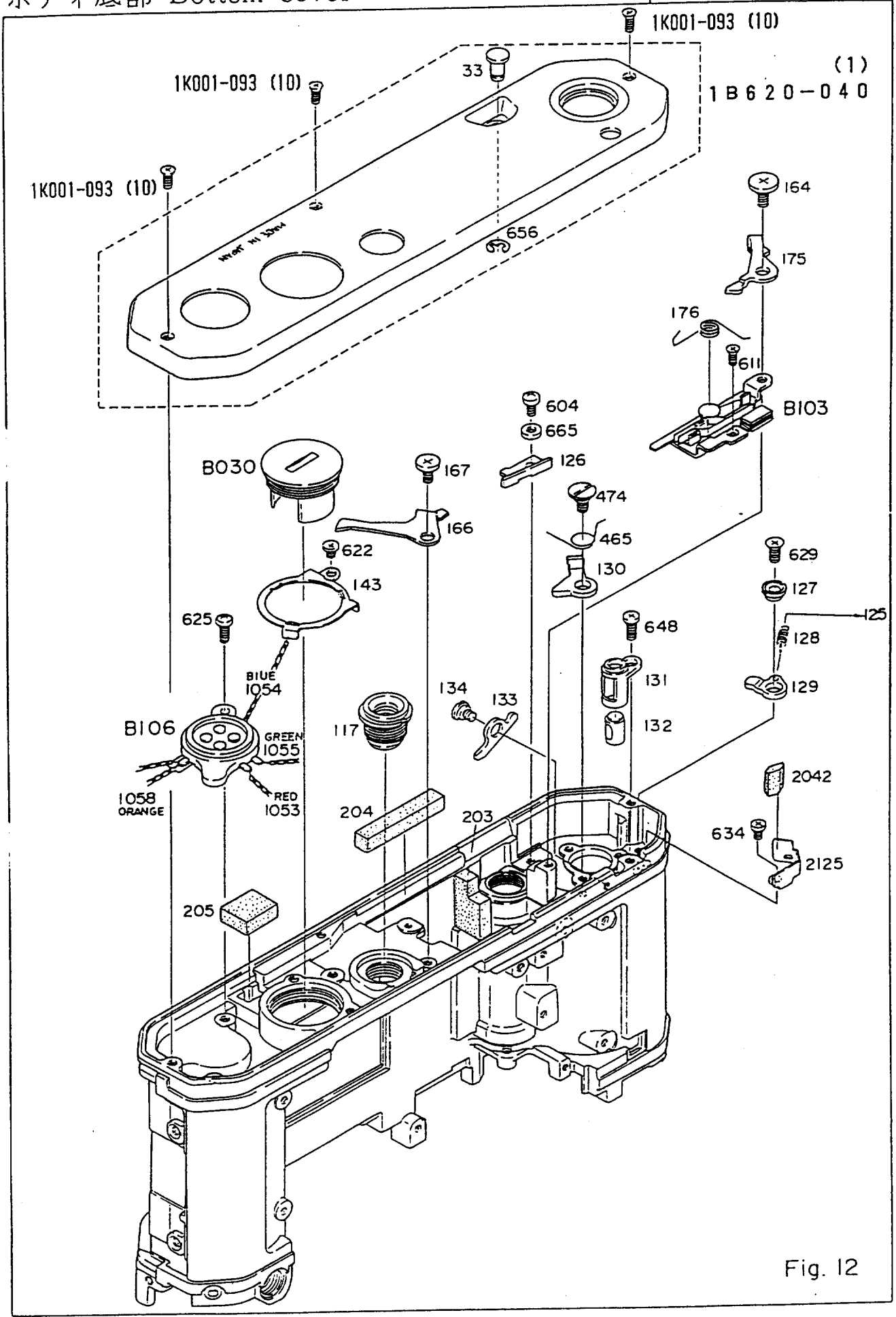

1K001-093 (10)
1K001-093 (10)
1K001-093 (10)
33
(1)
1B620-040
656
164
175
176
611
B103
604
665
126
B030
167
166
474
465
130
622
143
625
629
127
125
128
129
648
131
132
134
133
117
BIUE
1054
B106
GREEN
1055
RED
1053
1058
ORANGE
204
203
205
2042
634
2125

Fig. 12

| 部品番号 Part No. | 補助番号 Ckt No. | 名称 Name | 1台分個数 Q'ty Per Unit | 部組品番号 Assembly | 参照図番 Fig. No. | 販売区分 Class. of Salability | 備考 Remarks | 要求単位 Order Unit Q'ty |
|---|---|---|---|---|---|---|---|---|
| 1K001-091 | 603 | 上カバー止めネジ<br>Screw | 5 | | 1 | ○ | | 10 |
| 1K001-092 | 608 | 前カバービス<br>Screw, front cover | 1 | | 7 | ○ | | 10 |
| 1K001-093 | 610 | 底カバー止めネジ<br>Screw | 3 | | 12 | ○ | | 10 |
| 1K120-398 | 536 | ダイヤル上面ビス<br>Screw, shutter dial | 1 | | 5 | ○ | | 5 |
| 1K120-399 | 649 | 前カバービス<br>Screw, front cover | 1 | | 7 | ○ | | 10 |
| 1 46-163 | 403 | レバー押さえネジ<br>Film-advance lever screw | 1 | | 1 | ○ | | 5 |
| 1K165-229 | 493 | 多重撮り シートD (t=0.05)<br>Multi-exposure sheet D | 1 | 1B150-068 | 1 | ○△ | RP-93F3 | 5 |

その他の部品は、NEW FM2と共通です。

Other parts are same to NEW FM2 parts.

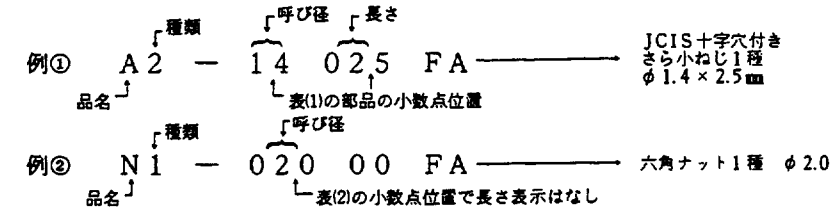
部組品表 Assembly List　　FM2／T　　FAA14132-R. 3345. B

| 部組番号 Part No. | 符号番号 Ckt No. | 名称 Name | 1台分個数 Q'ty Per Unit | 大部組品番号 Main assembly No | 参照図番 Fig. No. | 備考 Remarks | 要求単位 Order Unit Q'ty |
|---|---|---|---|---|---|---|---|
| 1B150-068 | | 上カバー<br>Top cover | 1 | | 1 | | 1 |
| 1B206-027 | | 巻上げレバー<br>Film-advance lever | 1 | | 1 | | 5 |
| 1B002-090 | | 着脱釦<br>Lens release button | 1 | | 9 | | 1 |
| 1B620-040 | | 底カバー<br>Bottom cover | 1 | | 12 | | 1 |
| 1B314-184 | | 巻き戻しレバー<br>Rewind crank | 1 | | 6 | | 5 |
| 8100-681 | | エプロン<br>Front cover | 1 | | 7 | | 1 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | その他の部品は、NEW FM2と共通です。<br>Other parts are same to NEW FM2 parts. | | | | | |
| | | | | | | | |

# 記号説明　MARKS IN THE PARTS LIST

(1) 機 械 標 準 品

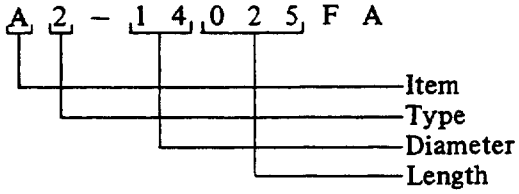
下の表に示す機械標準品の部品番号は品名、種類、呼び径、長さを示しています。




(1) Standard mechanical parts

Reference Number in the Parts List

A. Screw · pin




B. Nut · Washer · Snap ring

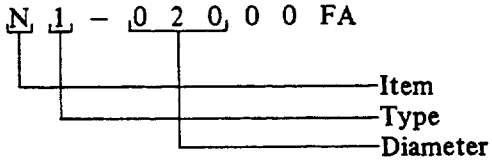



表 1

| 品名 Item | | 種類 Type | |
|---|---|---|---|
| JCIS 十字穴付き小ねじ 1種 Cross-point screw 1 | A | な べ Pan | 1 |
| | | さ ら Countersunk | 2 |
| | | 丸さら Oval | 3 |
| JCIS 十字穴付き小ねじ 3種 〃 screw 3 | B | な べ Pan | 1 |
| | | さ ら Countersunk | 2 |
| | | 丸さら Oval | 3 |
| 十字穴付き小ねじ 〃 Cross-point screw | C | な べ Pan | 1 |
| | | さ ら Countersunk | 2 |
| | | 丸さら Oval | 3 |
| | | トラス Truss | 4 |
| 十字穴付き タッピンねじB型 1種 Cross-point tapped screw B1 | D | な べ Pan | 1 |
| | | さ ら Countersunk | 2 |
| | | 丸さら Oval | 3 |
| 十字穴付き タッピンねじB型 3種 〃 screw B3 | E | な べ Pan | 1 |
| | | さ ら Countersunk | 2 |
| | | 丸さら Oval | 3 |
| 十字穴付き タッピンねじ 2種 〃 screw 2 | F | な べ Pan | 1 |
| | | さ ら Countersunk | 2 |
| | | 丸さら Oval | 3 |

| 品名 Item | | 種類 Type | |
|---|---|---|---|
| すりわり付き止ねじ Splitted set screw | K | 丸 先 Round point | 1 |
| | | とがり先 Cone point | 2 |
| | | くぼみ先 Half point | 3 |
| 六角穴付き止ねじ Hexagon socket head set screw | L | くぼみ先 Half point | 3 |
| 六角穴付きボルト Hexagon socket head bolt | M | | 1 |
| 平 行 ピ ン Straight pin | P | | 1 |
| テ ー パ ピ ン Taper pin | | | 2 |
| スプリングピン Spring cotter | | 一 般 用 Normal | 3 |
| | | 軽荷重用 Light | 4 |

表 2

| 品名 Item | | 種類 Type | |
|---|---|---|---|
| 六 角 ナ ッ ト Hexagon nut | | 1 種 1 | 1 |
| | | 3 種 3 | 3 |
| 平 座 金 Washer | R | 小 形 丸 | 1 |
| | | みがき丸 | 2 |
| ば ね 座 金 Spring washer | | | 5 |
| E 型 止 め 輪 E-snap ring | S | | 1 |

(2) The term of sale column 販売区分欄

| Mark 記号 | Explanation 説明 | |
|---|---|---|
| ○ | Can be supplied individually | 単独部品として販売するもの |
| △ | Not supplied individually but only as subassembly | 部組品でなければ販売しないもの |
| ○△ | Supplied either as part or subassembly | 単独部品でも部組品でも販売するもの |
| × | Not considered as repair part | 修理部品とは考えないもの |
| ※ | Should be sent to the factory if the repair is needed | 単体では交換できないので、組む場合に工場での加工が必要なもの |
| ◘ | Delivered as a product from the sales department (i.e., not supplied as repair part) | 商品として販売店で販売しているもの（修理部品扱いはしない） |

(3) The remarks column 備考欄

| | | |
|---|---|---|
| 32FB1#664 | Part number used in common | 共通部品番号 |
| (Blue×125mn) | Lead wire (color×length) | コードの色と長さ |
| 53F2013 (FM-780028) | Technical information ref. number (number in parenthesis; English edition) | 製品技術資料番号、（ ）内は英文 No. |
| (2.1×3.8×0.007) | Washer (internal diameter ×external diameter×thickness) | ワッシャーの（内径×外径×厚さ） |
| (Black) | Black-finished parts | 黒部品 |
| (d=0.2) | Diameter of wire. | 線径=0.2 |
| (t=1) | Thickness | 厚さ=1 |
| Rev. | Revision | 訂正 |
| Add. | Addition | 追加 |
| Dis. | Discontinuation | 廃止 |
| Ⓟ | Plastic part | プラスチック部品 |
| OLD | Part of the initial design | 旧部品 |
| R1…, D1… C1…, Q1… W1…, P1… | Abbreviation for electronic part | 電気部品記号 |

*…… VERSATILE PART

*…… 既出部品

A part marked with this pentagonal symbol is used commonly in the architecture of other products. That is called "VERSATILE PART". Note that every part, bearing new part number of eleven places, will turn into a VERSATILE PART when it is used in the design of future product.

# DISASSEMBLING & ASSEMBLING & ADJUSTMENTS

Contents Page

[1] DISASSEMBLING

1. Disassembling Outline ..... A1
2. Disassembling Details ..... A2-A6

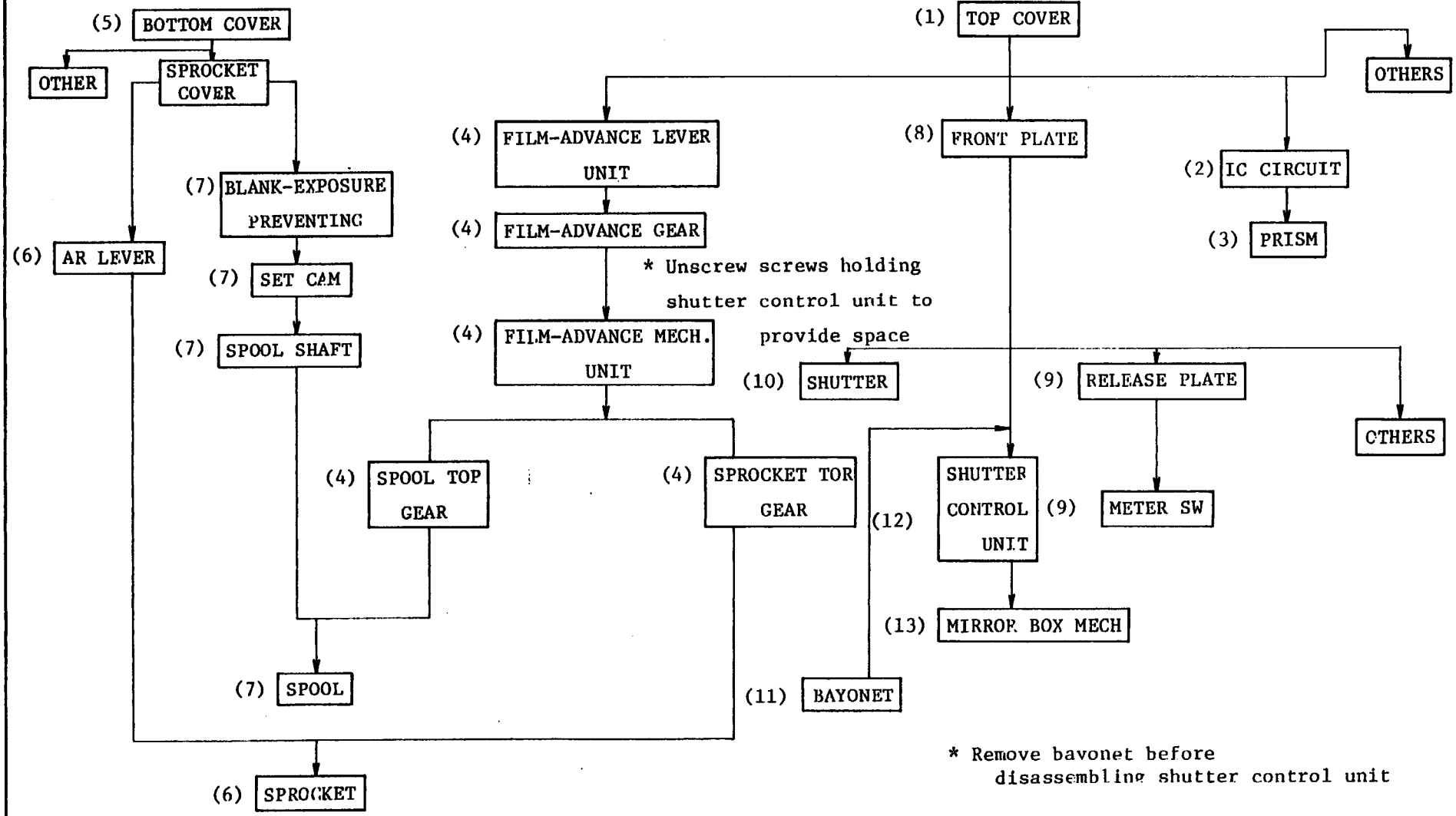
[2] ASSEMBLING ADJUSTMENTS

1. Sprocket Installation (Hold the Camera Body Upside Down)..... A7
2. Spool Installation ..... A8
3. Look Lever Installation ..... A9
4. Set Cam Installation ..... A10
5. Spool Top Gear/Unit, Film-Advance Mechanism/Film-Advance Gear Installation ..... A11-A12
6. Film-Advance Lever, Unit Installation ..... A13
7. Sprocket Stopper/Sprocket Positioning ..... A14
8. Film-Advance Lever Unit/Advance Claw-Coupling Gear Installation ..... A15
9. Film-Advance Lever Unit Base/Frame-Counter Dial Installation ..... A16
10. Film-Advance Lever Installation (Temporary) .... A17
11. Soldering Wires to Lever Switch B2406 ..... A18
12. Ratchet Cam, Pendulum Adjustment ..... A19
13. Shutter Charge Lever, Motor Coupling Installation ..... A19
14. MD Switch Circuit Board, Double-Exposure Preventing Installation ..... A20
15. Release Plate and Meter Switch, Circuit Board Installation ..... A21
16. Front Plate Unit (Lens Release Button and Manual Stop-Down Lever) ..... A22
17. Front Plate Unit (Focusing Screen Frame and Mirror) ..... A23
18. Mirror Box Mechanism Installation B322 ..... A24
19. Spring Hooking Position and Engaged Condition of Levers ..... A25
20. Aperture Lever Height Positioning ..... A26

Contents Page


21. Mirror Box Mechanism Specifications ..... A27
22. Front Plate Unit (Front Cover, Coupling Ring, Bayonet) ..... A28
23. Pentagonal Prism, Eyepiece and IC Printed Circuit Installation ..... A29
24. Mirror 45° Angle, Infinity Focus and Picture Angle Adjustment ..... A30
25. ADR Window Positioning ..... A31
26. Shutter Control Unit Installation ..... A32
27. Aperture Coupling String Tying .....A33
28. FRE Positioning with Use of Collar #529 ..... A34
29. Aperture Coupling Piece Positioning ..... A35
30. Dial Pully Installation ..... A36
31. FRE Installation ..... A37
32. Shutter Dial Installation ..... A38
33. Front Plate Unit Installation ..... A39
34. Shutter Unit Gear Position ..... A40
35. Wiring Diagram ..... A41
36. Meter Accuracy Adjustment ..... A42
37. Focusing Screen and Mirror Replacement ..... A43
38. MD Switch Function Check ..... A44
39. Accessory Shoe Function Check ..... A44
40. Shutter Release Stroke Check ..... A45

## 1. DISASSEMBLING OUTLINE



## 2. DISASSEMBLING DETAILS

### (1) TOP COVER

Fig.1 Film-advance lever B407
Leatherette #402
Film-advance lever screw #403
Tool : J11126

Fig.5 Shutter dial #533
Screw ⊕ #102x3

Fig.6 Rewind knowb #536
Rewind crank spring #566
Washer #570
Rewind shaft #562

Fig.1 Top cover B2026
Shoulder block #123
Shoulder block #122
Screw ⊕ #603x5

### (2) IC CIRCUIT Fig.8

Unsolder:
- Lead wire, battery chamber #1051 (red)
- Lead wire, battery chamber #1052 (black)
- Lead wire, data back switch #364 (white)
- Lead wire, data back contact #1057 (white)
- Lead wire, meter switch #1073 (orange)
- Lead wire, meter switch #1060 (red)
- Lead wire, shutter control #1061 (violet)
- " " #1062 (black)
- " " #1063 (brown)
- " " #1064 (yellow)
- Lead wire, MD external contact #1058 (orange)

Unsolder:
- Lead wire, synch terminal #1071 (blue)
- Lead wire, shutter #1070 (green)

SBD circuit board retainer #260
Screw ⊕ #635x1
Screw #637x2
IC circuit B1002
Prism
Eyepiece mold B328
Screw ⊕ #636x2

### (3) PRISM Fig.8

IC circuit
Prism retainer spring #233x2
Prism retainer #232
Prism #G3
Focusing screen frame #253
Spacer #252
Prism box #250
Screw ⊕ #643x4

Note: Use care to two washers #66 sitting under prism box.

## (4) FILM-ADVANCE LEVER UNIT/FILM-ADVANCE MECH. UNIT

Fig.1

TOP COVER

Note: Replace film-advance lever

Unsolder: Fig.2

Lead wire #1056 (violet)
Lead wire #1073 (orange)
Lead wire #1072 (red)

Fig.2

Film-advance lever unit B2408

Screw ⊕ #606x2
Screw ⊕ #602x1

Fig.3

Sprocket stopper spring #2496

Screw ⊖ #500x1

Fig.4

Sprocket stopper cam #429

Tool : J11155
Screw ⊖ #499x1 (left-thread)
Screw ⊖ #631x1

Fig.3

Film-advance shaft screw ⊖ #2651 (left-thread)

Clutch spring #2430
Clutch cam spring #2412
Clutch cam #2414
Film-advance cam #2413
Washer #2663 A-F
Film-advance gear #2415

Fig.3

Film-advance meth. unit B2403

Note: Unscrew Screws #538 and #648 holding shutter control unit and make a space for removing B2403, with shutter control unit floated.

Screw ⊕ #654x3
#121

Fig.4

Spool top gear B2207

Fig.4

Sprocket upper gear #2431

(5) BOTTOM COVER

Fig.12

Battery chamber lid B030

↓

Bottom cover B019

Screw ⊕ #610x3

(6) SPROCKET

Fig.12

AR lever #126

Screw ⊕ #622x1

Washer #662x1

↓

Fig.4

Sprocket screw #2433

Spool top gear

↓

Sprocket shaft bearing #438

Tool : J11118

↓

Sprocket #2470

Sprocket shaft B2201

(7) SPOOL

Fig.12

Double-exposure preventing lever #175

Screw ⊕ #164x1

↓

Fig.4

Motor coupling #138

Screw ⊕ #652x1

↓

Shutter charge lever B104

Set cam collar #171

Screw ⊕ #165x1

↓

Set cam B206

Screw ⊖ #650 (left-thread)

↓

Fig.4

Spool top gear

Note: Lift off #438, with sprocket shaft tilted and retracted.

Fig.4

Spool shaft bearing case B204

Screw ⊕ #605x3

↓

Spool shaft B2203

↓

Spool #2460

## (8) FRONT PLATE

Top Cover

↓

Unsolder:

Fig.8

- Lead wire, meter switch #1073 (orange)
- Lead wire, meter switch #1060 (red)
- Lead wire, battery chamber #1051 (red)
- Lead wire, battery chamber #1052 (black)
- Lead wire, data back contact #1057 (white)
- Lead wire, MD external contact #1058 (orange)

↓

Unsolder:

- Lead wire, synch terminal #1071 (blue)
- Lead wire, shutter #1070 (green)

↓

Self-timer lever B324

↓

Leatherette #111

Screw ⊖ #628x1

↓

- Leatherette A #154
- Leatherette B #155

↓

Note: Replace B324 after peeling off leatherette from front plate.

↓

Fig.5

Earth spring #539

Screw ⊕ #538x1

↓

Front plate

Screw ⊕ #643x5

Screw ⊕ #642x1

## (9) RELEASE PLATE/METER SWITCH

Fig.11

Release plate B2101

Screw ⊖ #66x2

Spring, release plate #65x1

Retainer, Spring #65, #47

↓

Meter switch B102

Unsolder:

- Lead wire #1059 (orange)
- Lead wire #1060 (red)

Screw ⊕ #72x1

Screw ⊕ #617x1

## (10) SHUTTER

Fig.11

Shutter B100

Screw ⊕ #624x2

Screw ⊕ #607x1

(11) BAYONET

Fig.7

Bayonet #202

Screw ⊕ #647x4

↓

Bayonet spring #208

↓

Ring #219

↓

Coupling ring #220

Note: Use care to Aperture coupling string #221.

Front cover B314

Screw ⊕ #608x1

Screw ⊕ #649x1

↓

Shutter control unit

(12) SHUTTER CONTROL UNIT

Bayonet

↓

Mirror release lever #554

Screw ⊕ #555x1

↓

Fig.5

Roller spring B502

Screw ⊕ #648x1

↓

Shutter control unit B510

Screw ⊕ #648x1

Do not damage Shutter speeds inner indicator #540 when removing B510.

↓

Mirror box mechanism

(13) MIRROR BOX MECHANISM

Shutter control unit

Fig.10

↓

Mirror box mech. B318

Screw ⊕ #609x1

Screw ⊕ #618x1

Screw ⊖ #646x1

Put Mirror down lever B317 to the down position.

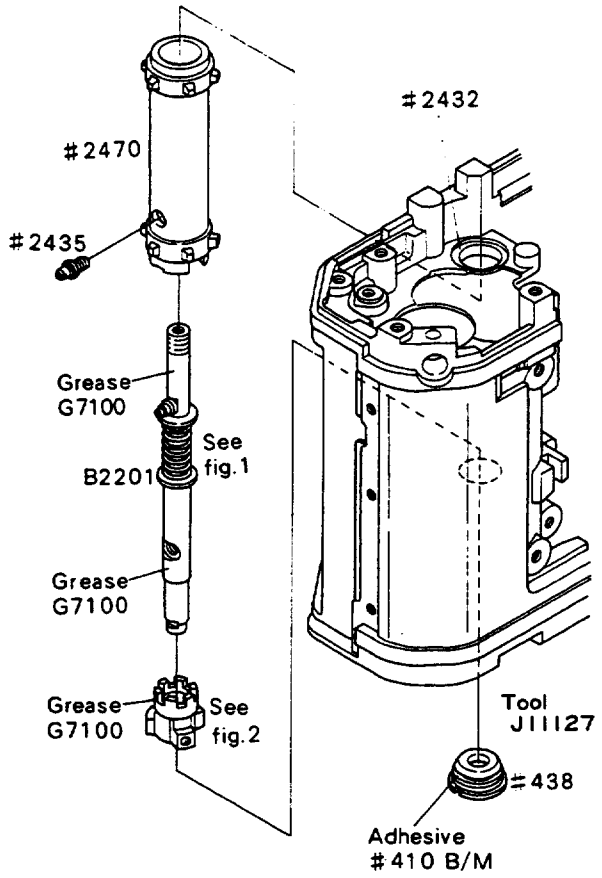
Disengage Mirror down lever spring #343 from mirror down lever.

↓

Mirror holder B308 Fig.9

Washer #375x2

## 1. SPROCKET INSTALLATION (HOLD THE CAMERA BODY UPSIDE DOWN)




Body die-casting #2021

↓

Sprocket #2470

↓

Sprocket shaft B2201

Before installation of Sprocket shaft #2434, put Spring #498 to the sprocket shaft as shown in Fig. 1.

Sprocket collar A #2436

Before installation of sprocket collar A #2436, put Sprocket collar A nut #437 to the sprocket collar A as shown in Fig.2.
When installing the sprocket with the sprocket shaft inserted to the camera body, first bring the top of sprocket close to the hole of lower plate and then pull the head of sprocket shaft, extending through the hole so that the tail of sprocket can be dropped into Bearing #2432 of the upper plate.

Sprocket shaft bearing #438

Screw sprocket shaft bearing #438 into Body die-casting #2021.

Sprocket screw #2435

Screw Sprocket screw #2435 into the hole of sprocket to fix the sprocket shaft.

(1) Sprocket shaft B2201

Sprocket shaft #2434

↓

Washer #2655

↓

Spring #495

↓

Washer #2655

↓

Screw #2433

(2) Sprocket Collar A

Sprocket collar A #2436

↓

Sprocket collar A nut #437

↓

Screw #631 x 2

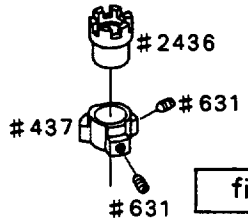



fig. 2

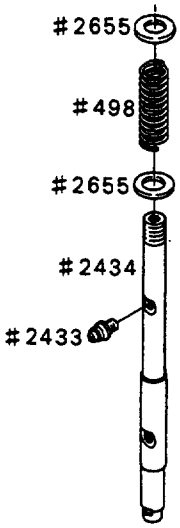



fig. 1

## 2. SPOOL INSTALLATION

Body die-casting #2021

↓

Spool B2202

↓

Spool shaft B2203

↓

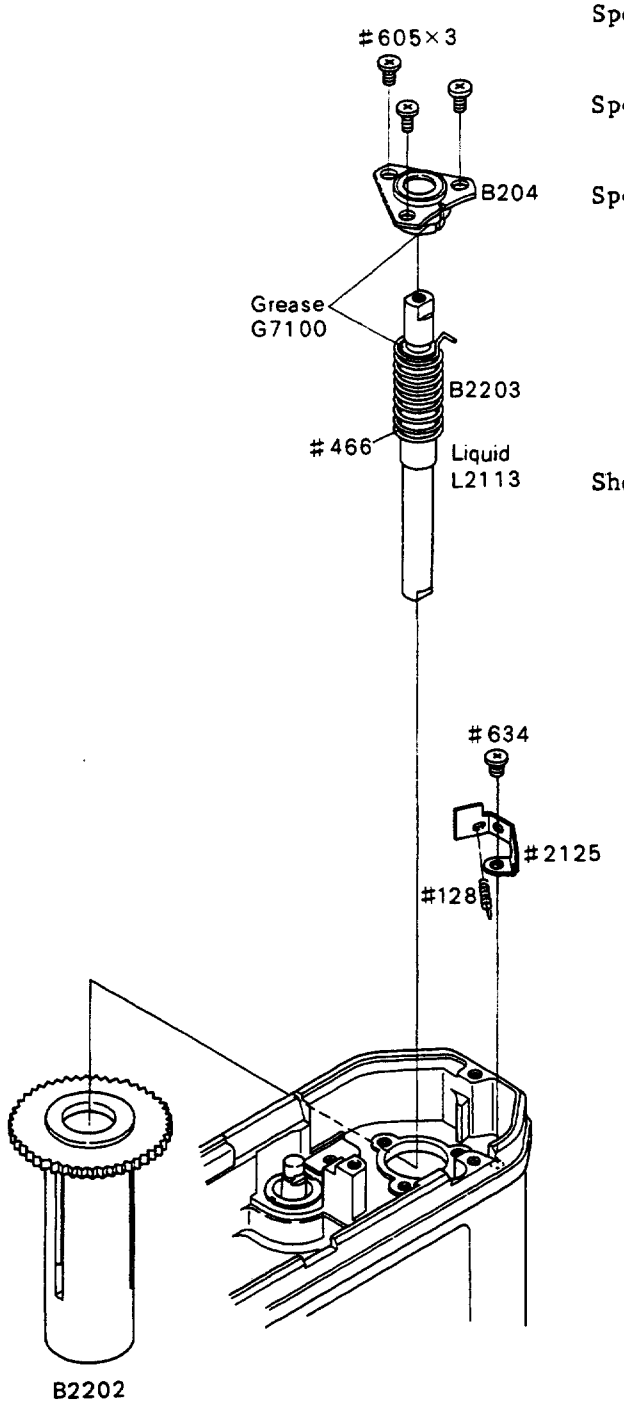
Spool shaft bearing case B204 ⊕ #605x3

After installing the spool in place, insert the top end of Spool shaft spring #466 into the slit of the spool shaft bearing case as shown in Fig. 3.

↓

Shock absorber #2125 ⊕ #634

Hook the end of Pendulum spring #128 to the shock absorber, with placed toward Shock absorber A #2042.



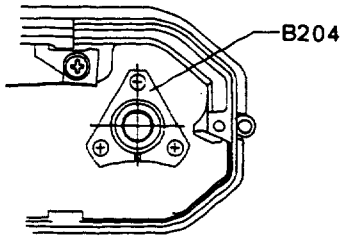




fig. 3 B204 Positioning

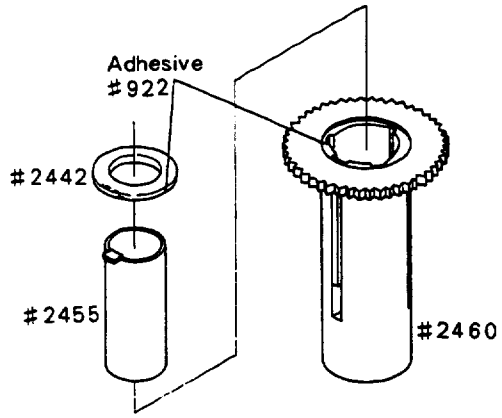
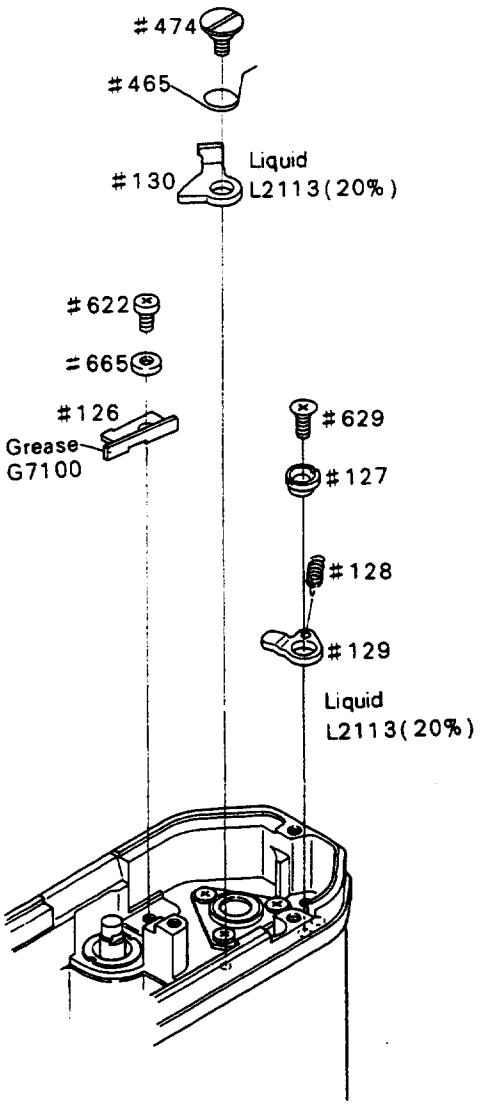



fig. 4 B2202 Exploded

## 3. LOCK LEVER INSTALLATION




Body die-casting #2021

↓

Lock lever #130

↓

Lock lever spring #465

↓

Lock lever axle #474

After installation of the lock lever, hook Lock lever spring #465 to Lock lever #130.

### (1) Pendulum installation

Pendulum #129

↓

Pendulum eccentric axle #127

↓

Screw #629

After installation of the pendulum, hook the other end of Pendulum spring #128 to the pendulum.

Check Pendulum #129 for smooth movement.

Put the pendulum to the drawn back portion with use of the eccentricity.

### (2) AR lever installation

AR lever #126

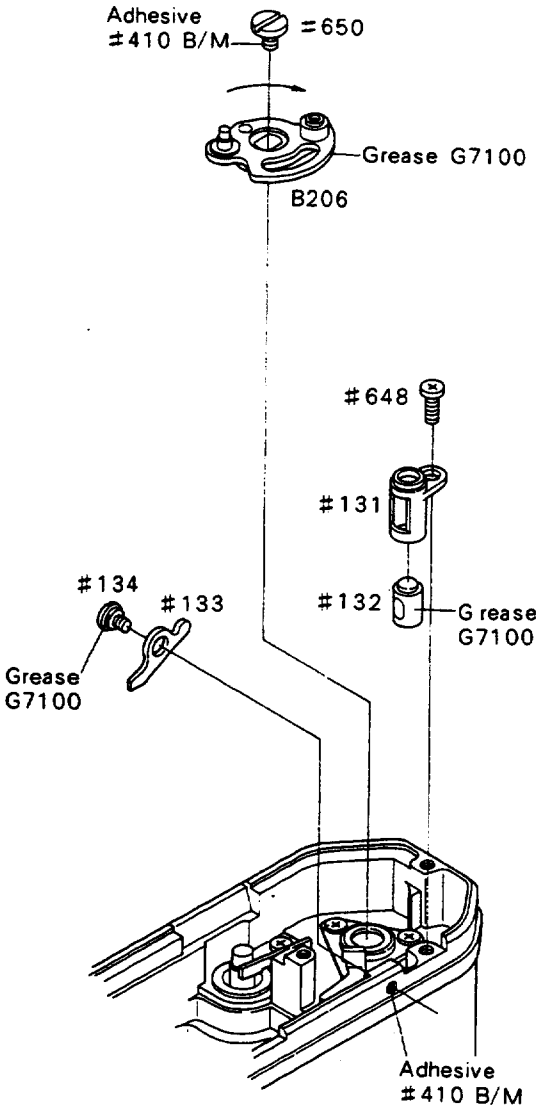
↓

Spacer #665

↓

Screw #622

## 4. SET CAM INSTALLATION




Body die-casting #2021

↓

Set cam B206

On installation of the set cam, turn Spool shaft B2203 one turn clockwise.

Wash Set cam B206 tc remove grease.

↓

Film-advance shaft screw ⊖ #650 (left-thread)

### (1) MD shaft bearing installation

MD shaft #132

MD shaft bearing #131 ⊕ #648

Put MD shaft #132 into MD shaft bearing #131.

Bottom cover B019 gives the guidance for installing position of MD shaft bearing #131.

### (2) MD see-saw lever installation

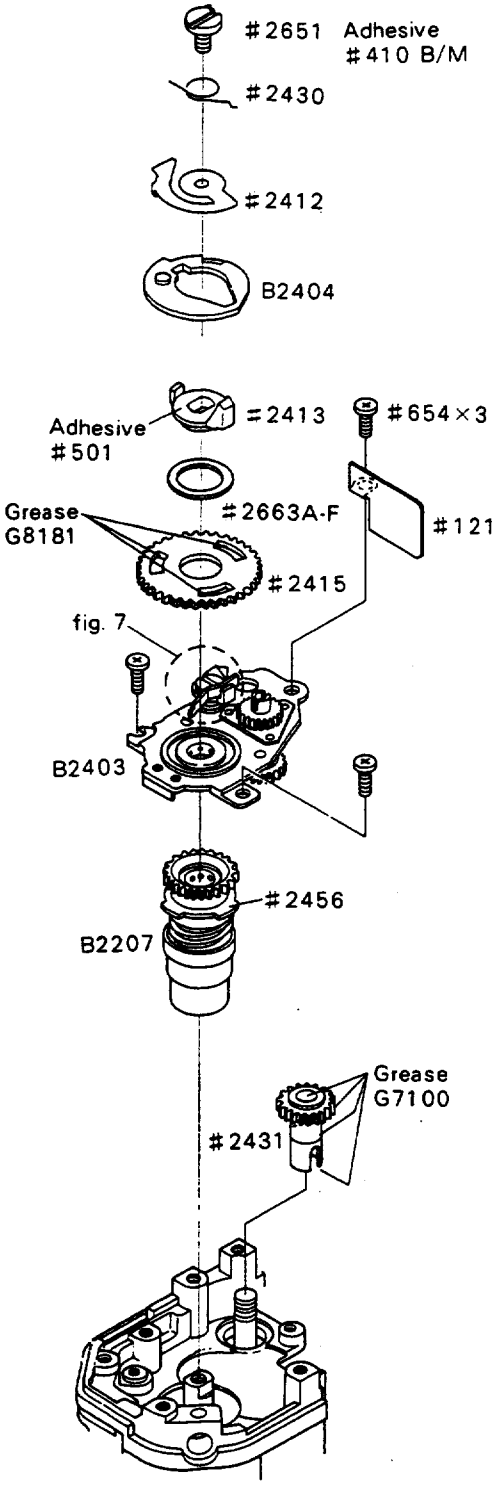
MD see-saw lever #133

Install #133 into the slot of MD shaft #132.

↓

MD see-saw lever axle #134

## 5. SPOOL TOP GEAR/UNIT, FILM-ADVANCE MECHANISM/FILM-ADVANCE GEAR INSTALLATION




Body die-casting #2021

↓

Spool top gear B2207

Rotating spool, let Friction plate #2456 drop into inside groove of spool.

↓

Sprocket upper gear #2431

↓

Unit, film advance mechanism B2403
Screw ⊕ #654x3 , #121

Rotating spool, install Unit, Film-advance mechanism B2403 in the position of the most smooth rotation.

↓

Film-advance gear #2415, Washer #2663A-F, Film-advance cam #2413

The installing position of Film-advance gear #2415 and Film-advance cam #2413 is referred to Page A12, Fig.5.
Washer #2663A-F (thickness: 0.05,0.1, 0.2,0.25,0.3mm)

↓

Clutch cam B2404

↓

Clutch cam spring #2412

Hook the spring to Clutch cam B2404. Cement the spring to Film-advance cam #2413.

↓

Film-advance shaft screw #2651, Clutch spring #2430

#2651 has a left-thread.
Standard tightening torque of Screw #2651 is 3kg/cm.
After tightening the screw, check the combination movement of Film-advance cam #2413 and Clutch cam spring #2412.
Fig.6 shows the section where Spring #2412 should be hooked to Clutch spring #2430.

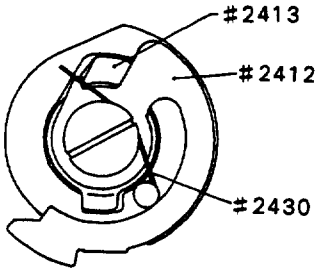



fig. 6-1

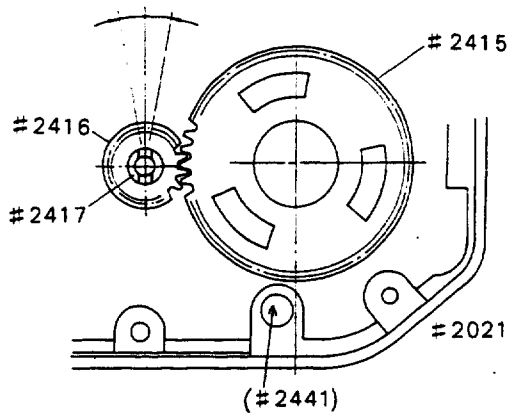



fig. 5

## Film-advance gear positioning

When one of the fan-shaped openings of Film-advance gear #2415 is aligned with the center of screw hole for #2441, the slots of #2416/#2417 should locate toward the body line at a right angle.

Positioning allowance is within a one full portion of the slot #2416.

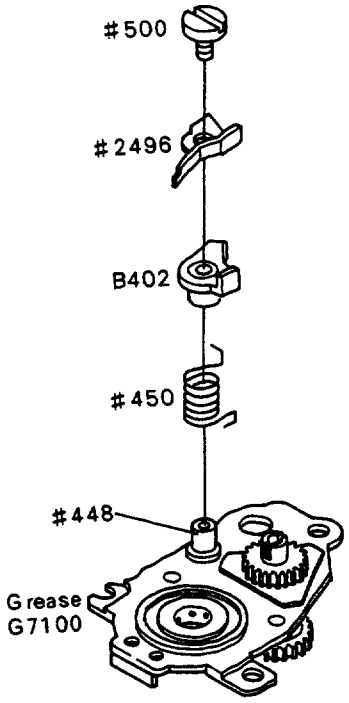
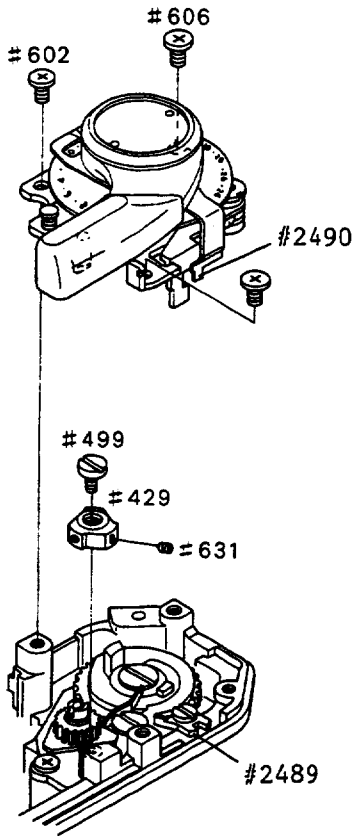



fig. 7 B2403

## 6. FILM-ADVANCE LEVER UNIT INSTALLATION




Body die-casting #2021

↓

Unit, film-advance lever B2408

When installing Unit, film-advance lever B2408, bring Clutch cam B2404 in engagement with Film-advance gear #2415.

The relative position between Advance claw lever #2194 and Idle gear B#2417 is as shown in Fig.8.

Put Multi-exposure lever #2490 into the fcrk of Coupling lever #2489.

Screw ⊕ #602

Screw ⊕ #606x2

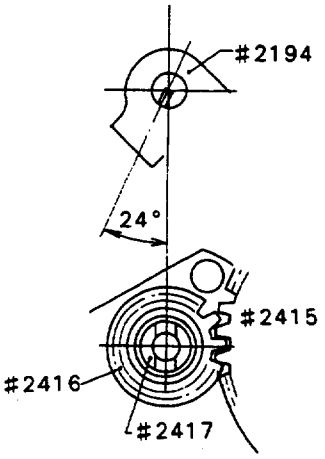



fig. 8

### Sprocket stopper cam installation

Sprocket stopper cam #429

Temporarily tighten Screw #631 for adjustment in the next step.

Screw Sprocket stopper cam #429 in place to go as high as Sprocket shaft #2434.

↓

Sprocket screw (left-threaded) ⊕ #499

Sprocket stopper cam positioning should be referred to Fig. 9.

## 7. SPROCKET STOPPER / SPROCKET POSITIONING

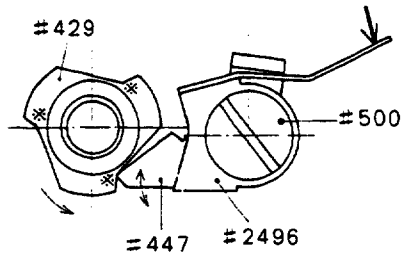



fig. 9

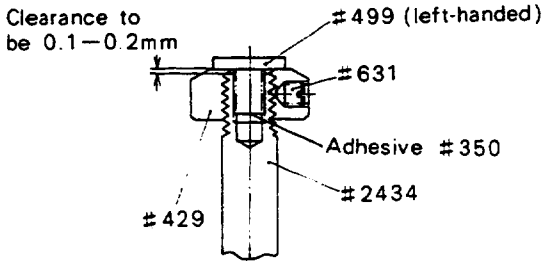



fig. 11

### (2) Sprocket Positioning

Sprocket teeth positioning gauge J18064.
Check to see if end of the sprocket teeth comes to the position as depicted in Fig. 10.

Set the film-advance lever to the stand-off position.

Adjust #429 after loosening

Screws #631x2
(Refer to fig. 12-1)

After adjustment, drill a bit hole of ϕ1.1mm to secure one Setscrew #631 firmly.

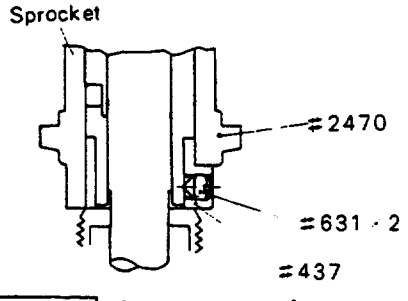



fig.11-1 Cross section of lower part of sprocket

### (1) Sprocket stopper positioning

Sprocket teeth positioning gauge J18064

Set sprocket teeth positioning gauge (J18064) onto body-aperture frame and holding film-advance lever fully stroked, measure the sprocket play on the scale of J18064 as shown in Fig.10.
The play to be within 0.8mm

Repeat the measurement three times in the same manner to make sure the proper operation of #429 at each area shown.

Adjust the play by rotating #429 after removing #499 (left-thread) and loosening #631 as shown in Fig.9, Fig.11.
Be sure to provide 0.1 to 0.2mm clearance between #429 and #2434 on positioning.

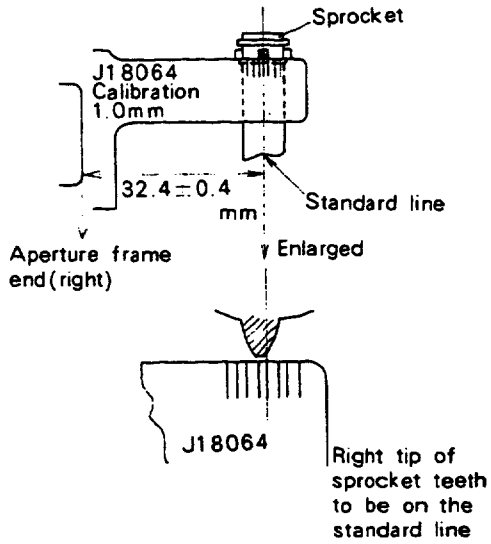
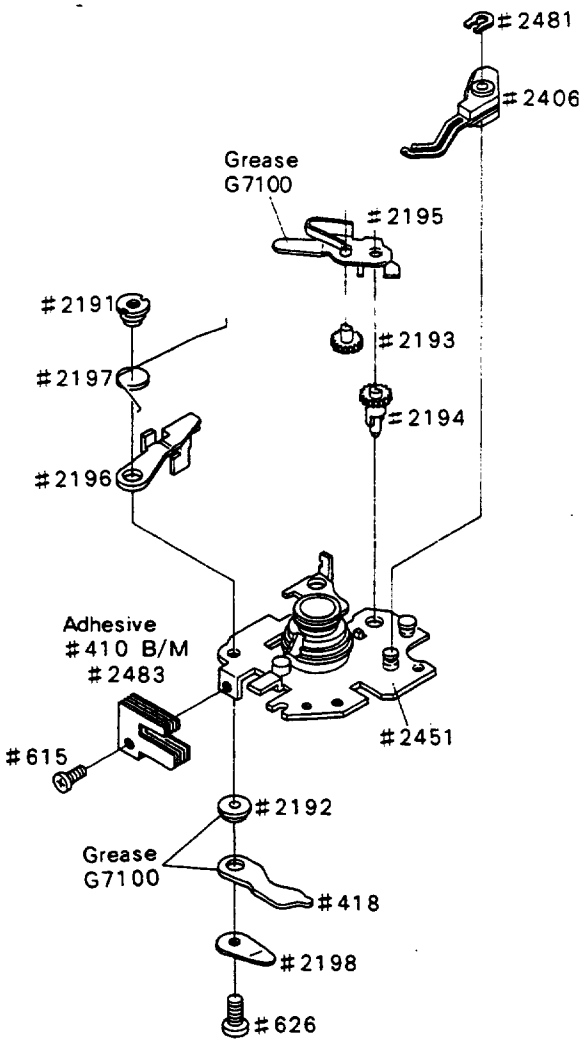



fig. 10 Measurement with J18064

## 8. FILM-ADVANCE LEVER UNIT / ADVANCE CLAW-COUPLING GEAR INSTALLATION




Base, film-advance lever unit #2451
↓
Advance claw coupling gear #2194
↓
Claw spring #2195
After installing Advance claw gear #2193, fix Claw spring #2195 in place.
The cutout of the gear shaft #2193 should face the spring in the shutter-cocked condition for proper operation of the frame counter.
(Refer to fig.12)

### (1) Counter reset lever installation

Click lever collar, unit B2408 #2192
↓
Click lever #418
↓
Click lever stopper #2198
↓
Screw #626
↓
Frame counter reset lever #2196
↓
Counter reset lever axle #2197
↓
Nut, frame counter reverse lever #2191
Hook Claw spring #2195 to Counter reset lever axle #2197.

### (2) Click lever spring installation

Click lever spring #2483x5
↓
Screw #615

### (3) Switch installation

Switch spring #2476
↓
Lever switch B2406

For proper contact of Switch B2406, use a thinnest metal plate (0.081) to provide a clearance between B2406 and G-ring #2481, when fixing the G-ring.
Do not use the G-ring once removed.
Hook each end of Switch spring #2476 to cutout of the upper bracket and the switch.

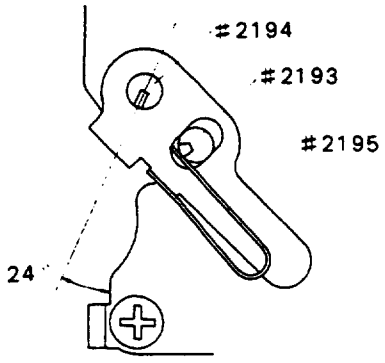
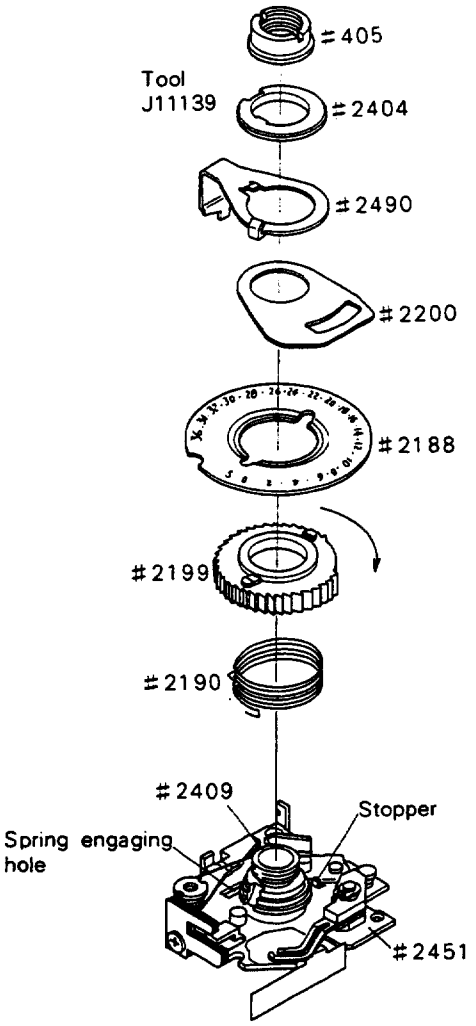



fig. 12

## 9. FILM-ADVANCE LEVER UNIT BASE / FRAME-COUNTER DIAL INSTALLATION




Base, film-advance lever unit #2451

↓

Counter spring #2190

Hook the one end of the spring to the cutout of Unit #2451.

↓

Ratchet, unit B2408 #2199

First hook the other end of Counter spring #2190 to Ratchet #2199, and then turn the ratchet one turn clockwise. Use the stopper to hold the ratchet in this position.

↓

Frame-counter dial #2188

When installing Frame-counter dial #2188, place the letter 'S' (Start) toward Lever switch B2406.

↓

Frame-counter index #2200
Multi-exposure lever #2490
Frame counter retainer #2404

Put the protrusion of #2404 into the cutout of #2409.

↓

Nut, film-advance lever shaft #405

After aligning the 'S' of the frame-counter dial with the pointer of the frame counter index #2200, tighten Nut #405 strongly.
Check frame-counter dial (#2188, #2199) for smooth operation.

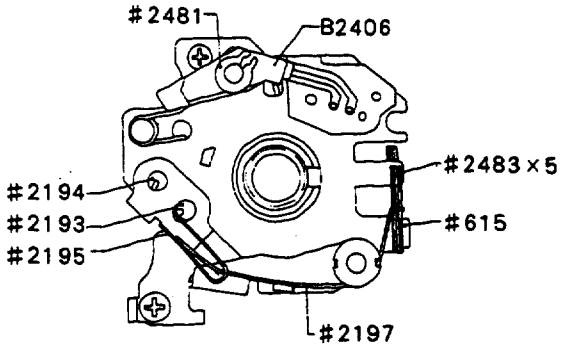
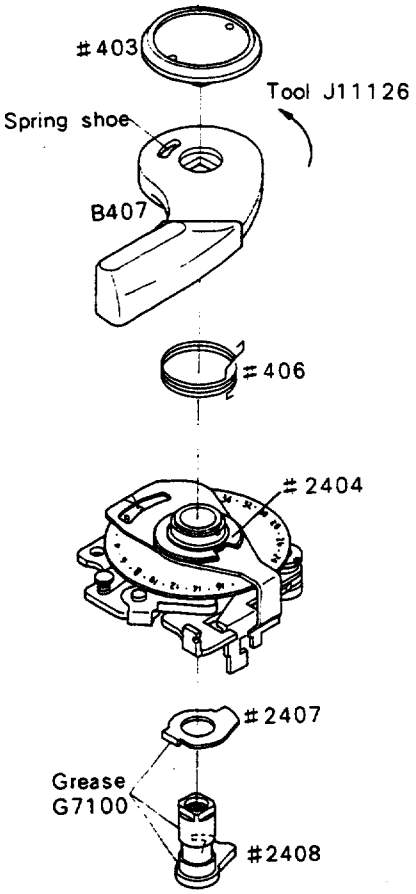



fig. 13

## 10. FILM-ADVANCE LEVER INSTALLATION (TEMPORARY)




Unit, film-advance lever B2408

↓

Sprocket stopper release plate #2407

↓

Film-advance shaft #2408

↓

Spring, film-advance lever reverse #406

Hook one end of #406 to the cutout of Frame counter retainer #2404.

↓

Film-advance lever B407

Hook the other end of #406 to the cutout of Film-advance lever B407, and then turn it one turn counter clockwise.

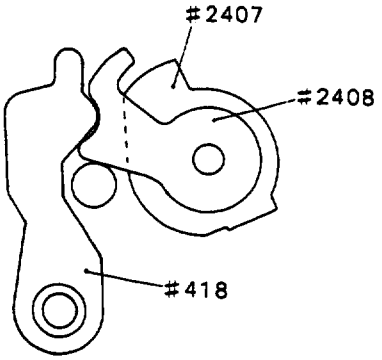
↓

Film-advance lever screw (black) #403

Check the smooth movement of Film-advance lever B407.

Standard torque to pull out the lever: 1 - 2 kg/cm
Standard play in a vertical direction: within 0.13mm

The Fig.14 shows the rest position of film-advance lever.



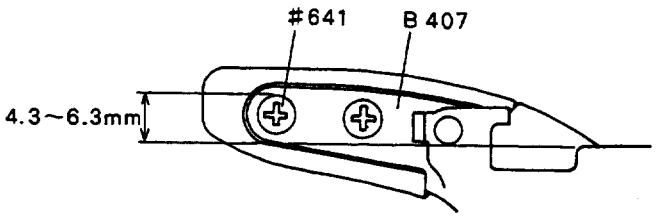
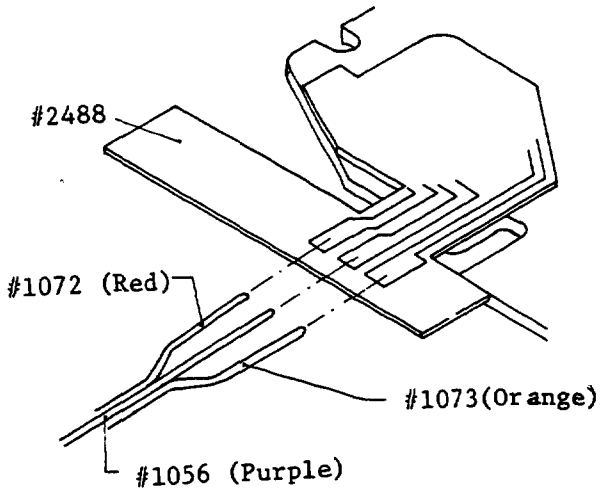




fig. 14 Film-advance lever in the rest position

## 11. SOLDERING WIRES TC LEVER SWITCH B2406




Circuit board, lever switch #2488

↓

Lead wires #1056, #1072, #1073

Solder the wires as shown in the figure.

Check the solder joints, referring to the table.

The film-advance lever should not catch at the switch blade in the movement.

| Film-advance lever | Violet wire/Switch #2451 | Red wire/Orange wire |
|---|---|---|
| the rest position | On | Off |
| the stand-off position | Off | On |

## 12. RATCHET CAM, PENDULUM ADJUSTMENT

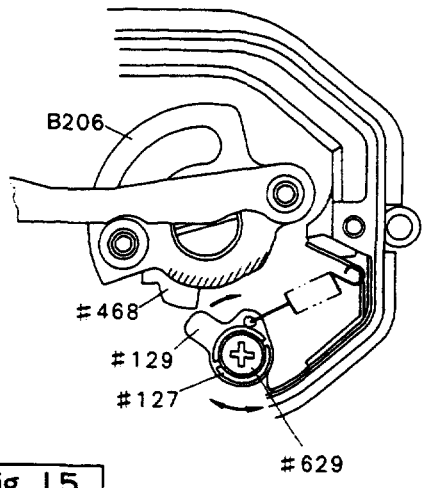



fig. 15

Relative movement of Film-advance stopper with Pendulum

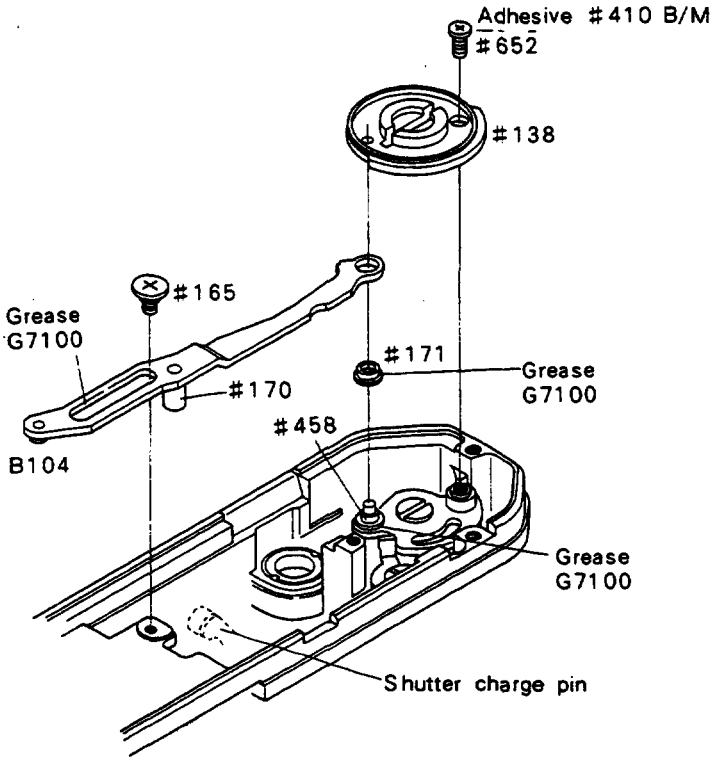
From when Pendulum #129 disengages from Ratchet cam #468 until the film-advance lever is fully stroked, movement of ratchet cam should be within 0.3mm.

Loosen Screw #629 and adjust Ratchet cam #468 by rotating Pendulum eccentric axle. Be sure to re-tighten Screw #629.

Make sure proper shutter charge or film-advance operation when film-advance lever is stroked slowly or quickly, and weakly or strongly.

Return set cam slowly to check if it moves 0.3 - 0.7mm after being disengaged from Pendulum #127.

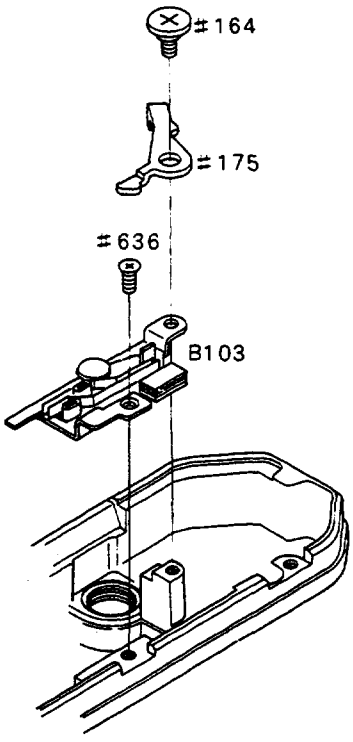
## 13. SHUTTER CHARGE LEVER, MOTOR COUPLING INSTALLATION




Set cam collar #171
↓
Shutter charge lever B104
Screw ⊕ #165
Fitting B104 onto #171, position Charge lever pin #170 at right side of shutter charge pin.
↓
Motor coupling #138
↓
Coupling screw #820

Check that shutter cocks certainly when film-advance lever is slowly stroked, and that set cam returns to its original position.

## 14. MD SWITCH CIRCUIT BOARD; DOUBLE-EXPOSURE PREVENTING INSTALLATION




Body die-casting #2021

↓

MD switch circuit board B103 Screw ⊕ #636

↓

Lever, double-exposure preventing

Hook top end of the lever to Spring, double-exposure preventing lever #176.

Refer to Fig.16.

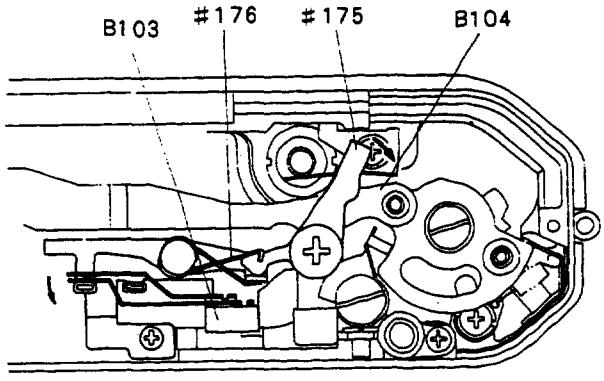



fig. 16 After the shutter is released

When stroking the film-advance lever, MD switch and Lever, double-exposure preventing move to the allow direction.

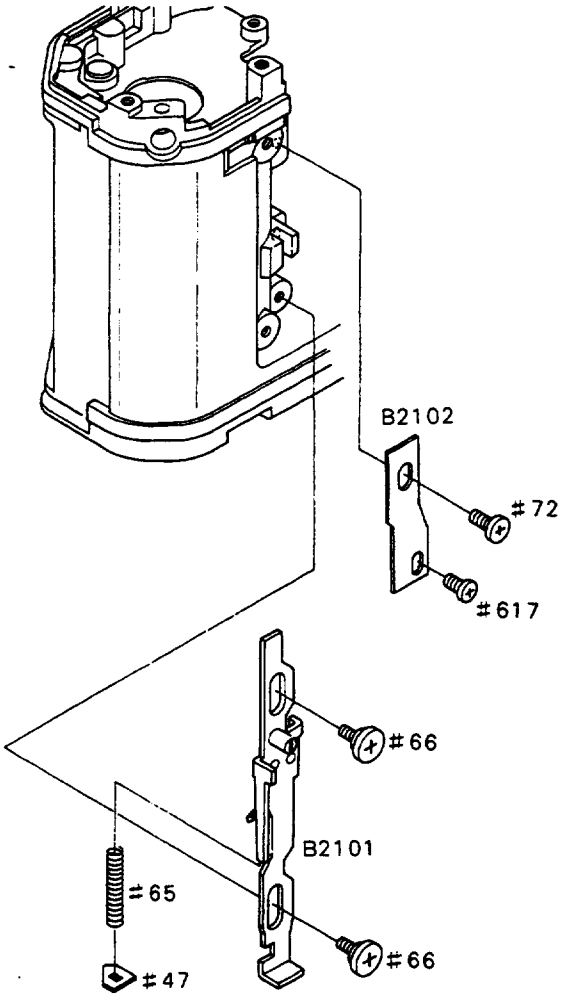
(1) Check of MD Switch

MD switch should switch off when film-advancing is completed. Clearance of the contact blades should be more than 1.5mm.

(2) Double-exposure preventing lever movement check

When the film-advance lever is returning from the full stroke, see if double-exposure preventing lever couples to shutter charge lever before releasing the pendulum.

## 15. RELEASE PLATE AND METER SWITCH, CIRCUIT BOARD INSTALLATION




Body die-casting #2021

↓

Circuit board, meter switch B2102
Screw ⊕ #72 ⊕ #617

Installing position of the meter switch, circuit board is adjusted by loosening Screw #617. This work can be done either after fixing the release plate or after replacing front plate which has the necessary access opening.

↓

Release plate B2101
Screw ⊖ #66x2

Use tweezers to hold Spring #65 and Retainer, spring #65 #47 in place before installing the release plate onto the body.

Make sure that the meter switch blades should not bend.

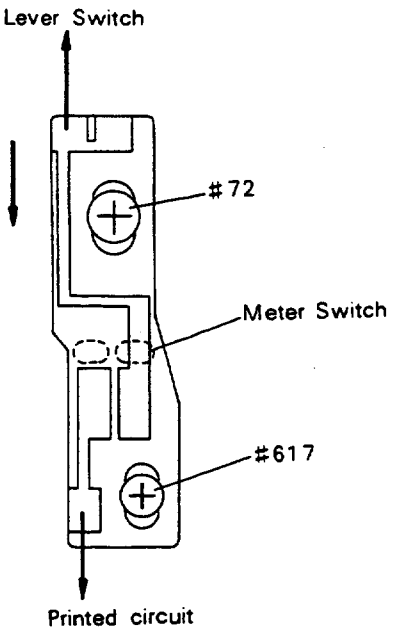


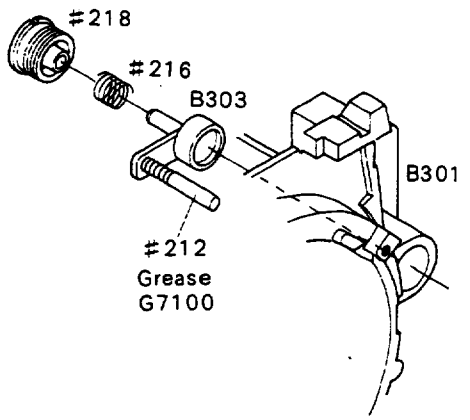

fig. 17

### Meter switch circuit board installation

Install circuit board, with meter switch off. See Fig.17. Meter switch is located preferably closer to contact on circuit board.

Accurate positioning should be made by release button stroke adjustment after replacing top cover.

## 16. FRONT PLATE UNIT (LENS RELEASE BUTTON AND MANUAL STOP-DOWN LEVER)




Front plate unit B301

↓

Lens release button B303

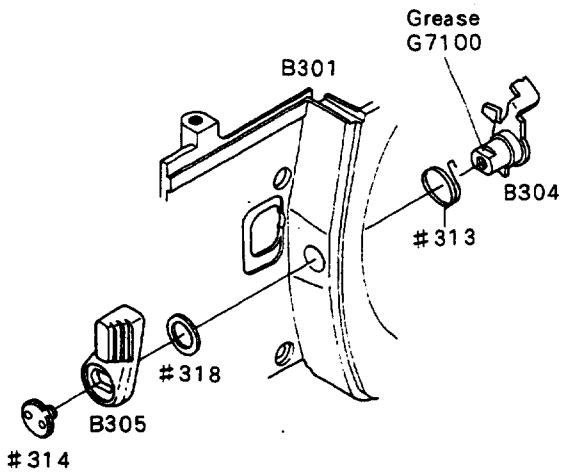
↓

Lens release button spring #216

↓

Lens release button sleeve #218

Check lens release lever for smooth operation.




Tool J11135

Front plate unit B301

↓

Stop-down lever Spring #313

Manual stop-down lever B304

↓

Fig.18 shows how to hook #313 in place.

↓

Manual stop-down lever washer #318

Stop-down lever B305

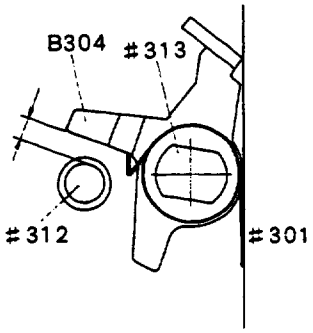
↓

Put B305 onto B304.

↓

Stop-down lever screw #314

Make sure of smooth movement and spring-loaded return of Stop-down lever B305.




Check stop down lever for vertical play: less than 0.2mm

There should be a clearance between Manual stop down lever B304 and aperture lever collar #324, when B304 is free.

fig. 18 #313 Spring shoe

## 17. FRONT PLATE UNIT (FOCUSING SCREEN FRAME AND MIRROR)

Front plate unit B301

↓

Mirror axle base unit B307
Screw ⊕ #616x2

↓

Washer #375x2

↓

Hold Front plate unit, with rewind-side down, to sit washers in place.

↓

Focusing screen frame B306

↓

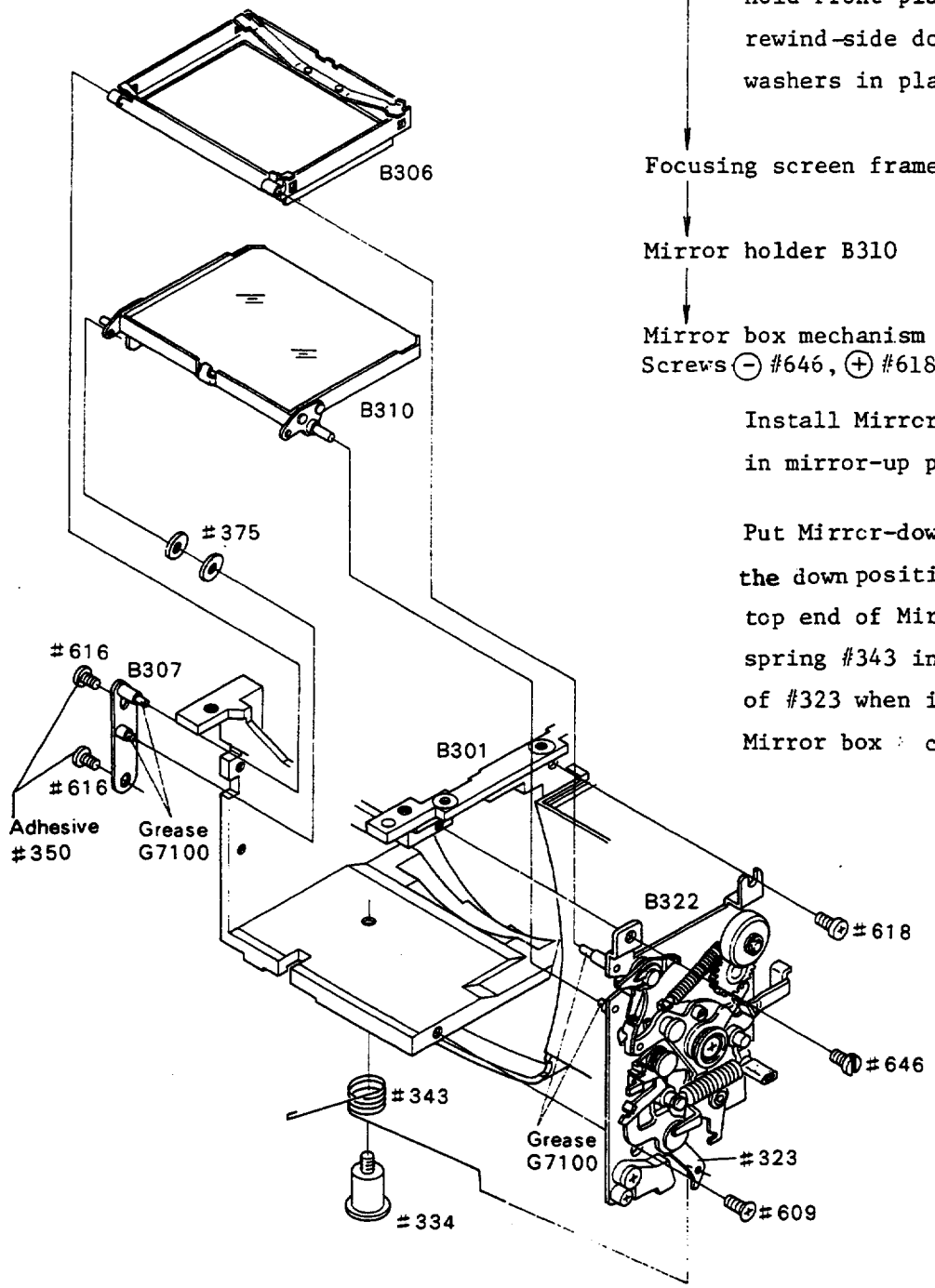
Mirror holder B310

↓

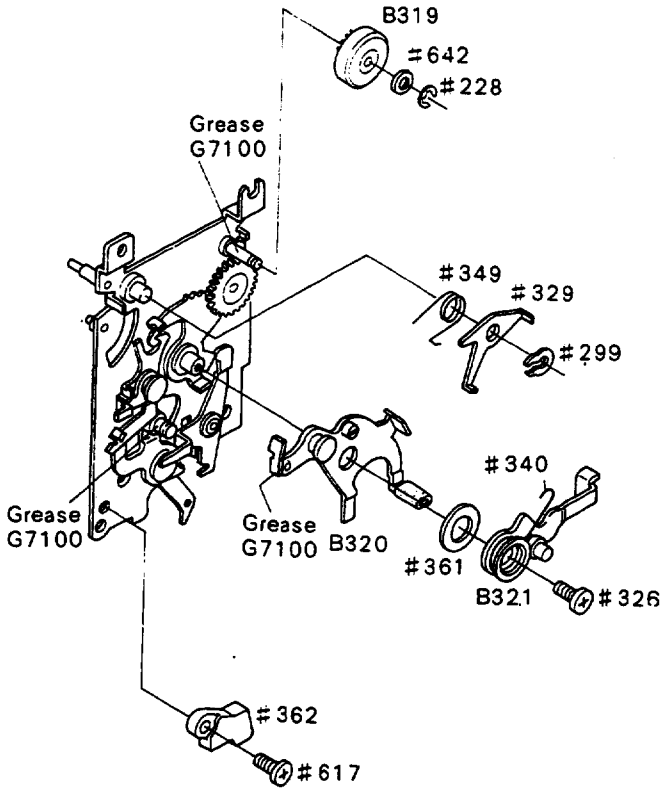
Mirror box mechanism B322
Screws ⊖ #646, ⊕ #618, ⊕ #609

Install Mirror holder B310 as in mirror-up position.

Put Mirror-down lever #323 in the down position and insert top end of Mirror-down lever spring #343 into the hole of #323 when installing Mirror box mechanism B322.



## 18. MIRROR BOX MECHANISM INSTALLATION B322




Mirror box mechanism B322

↓

Mirror-up stop lever #329

Spring, mirror-up stop lever #349

G-snap ring #299

↓ Place the cutout of ring toward inside.

Fly wheel B319

Washer #642

E-snap ring #228

↓

Mirror-up lever B320

Washer #361

↓

Aperture lever B321

Screw ⊕ #326

↓

Shock absorber, mirror-down lever #362

Screw ⊕ #617

## 19. SPRING HOOKING POSITION AND ENGAGED CONDITION OF LEVERS

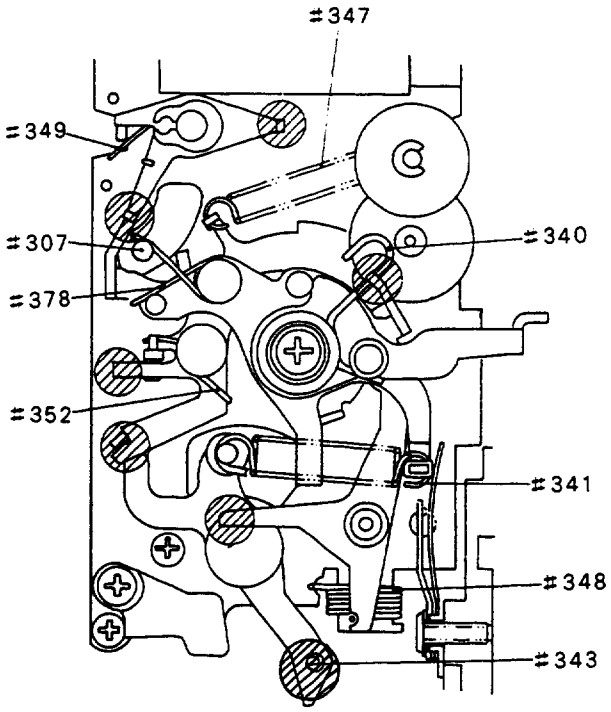



fig. 19

Mirror-up lever, Spring #378 should be engaged with Mirror holder pin #307.

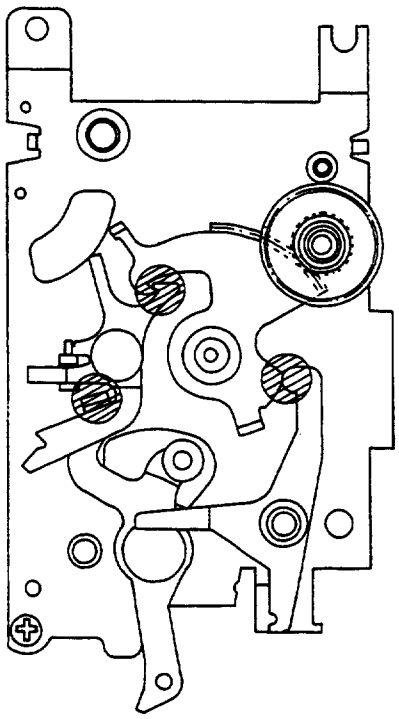


fig. 20

Apply G7100 to parts hatched in Fig.19 and Fig.20.

## 20. APERTURE LEVER HEIGHT POSITIONING

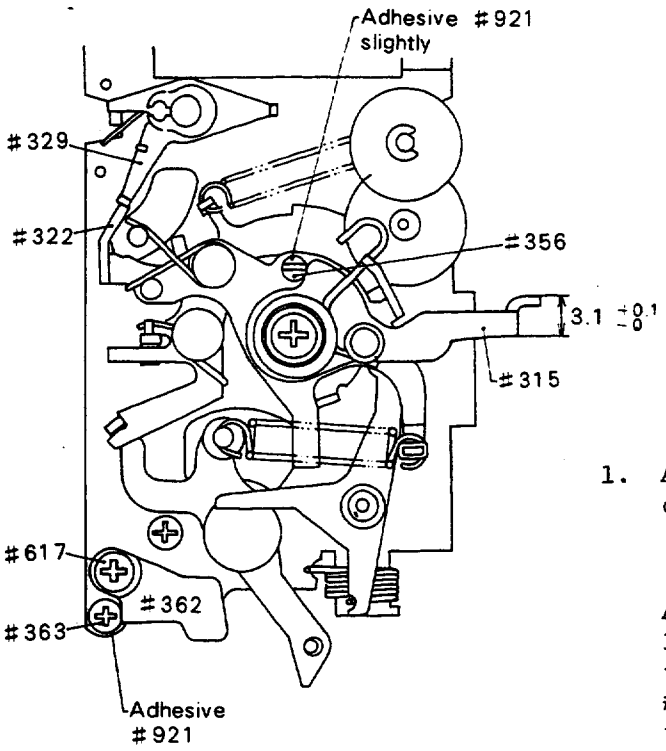
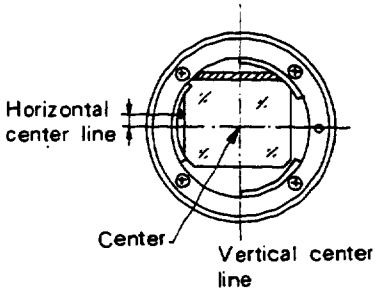



fig. 22

(1) Measurement

Use Tool J18004 to measure aperture lever height from the horizontal center line of camera bayonet mount.




1. Aperture lever height of mirror charged condition

   Specification: $3.1^{+0.1}_{-0}$ mm

   Adjustments can be made by turning 3.1 eccentric axle #356. After this, apply a little Lock-tight #921 to axle #356. Be careful not to exude #92 onto Aperture lever #315.

2. Aperture lever height of mirror released condition

   Specification: $3.1^{+0.4}_{-0.15}$ mm

   Adjustments can be made by turning Eccentric axle, mirror box mechanism #363, after loosening Screw #617. Apply a little Lock-tight #921 to axle #363.

3. Aperture lever height defference between mirror charged and released conditions.

   Specification: more than 0.15mm

4. The clearance between Mirror-up lever #322 and Mirror-up stop lever #329 should be more than 0.15mm. (Refer to next page)

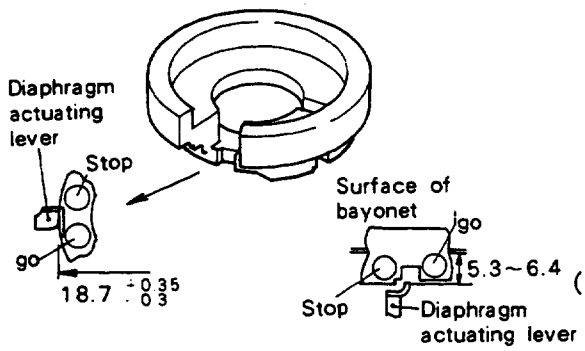



fig. 23

(2) Position of Aperture lever

Check the distance from vertical center line and the depth from bayonet surface. See Fig.23

The tip of Aperture lever should not contact the "stop" side of Aperture lever depth gauge J18042, and should not contact with "go" side. Adjust the lever position by bending Aperture lever.

## 21. MIRROR BOX MECHANISM SPECIFICATIONS

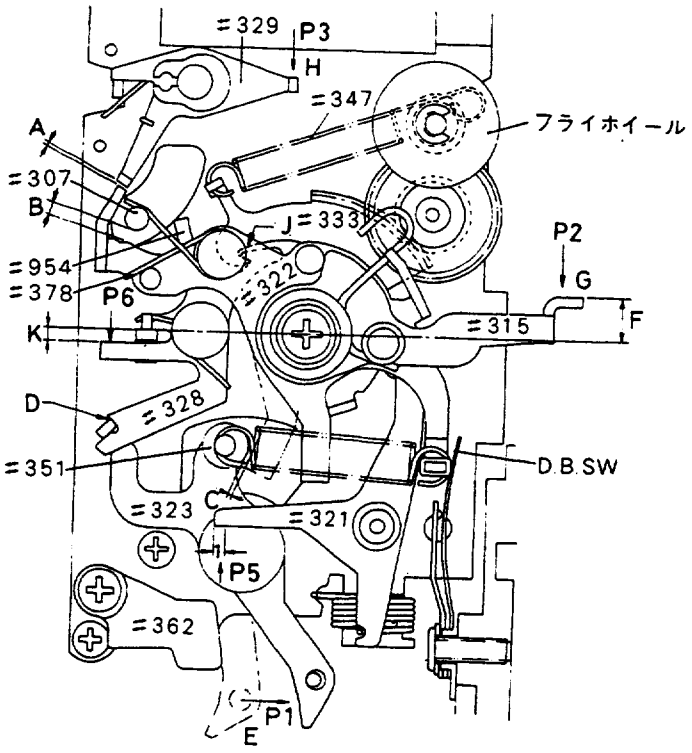



fig. 24

(1) Mirror-up lever #322

Clearance (A): More than 0.15mm (in mirror-down position)

Clearance (B): More than 0.8mm (after film-advancing)

Clearance (C): More than 0.1mm (in mirror-up position)

(2) Mirror-down lever #323

Engaging length (D): 0.9mm

Reverse torque (E): P1=490g

(3) Aperture lever #315

Height of aperture lever (F)

Charged-position: $3.1^{+0.1}_{-0}$ mm

Released-position: Less than 3.5mm

Balance between the both positions: More than 0.15mm

Reverse torque (G): 90-120g

Stroke: More than 7.1mm

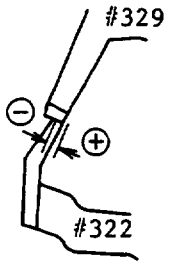
Stop-down measurement: More than 7.4mm

(4) Mirror-up stop lever #329

Engaged position with Mirror-up lever #322: #329 should meet the whole working face of #322.

Allowance: +0.2 - 0.1mm

Disengage torque (H): More than 25g (before charging)
35g ±8g (after charging)




(5) Functional gear #333

Clearance (J): More than 0.05mm (after charging)

(6) Shutter release lever #321

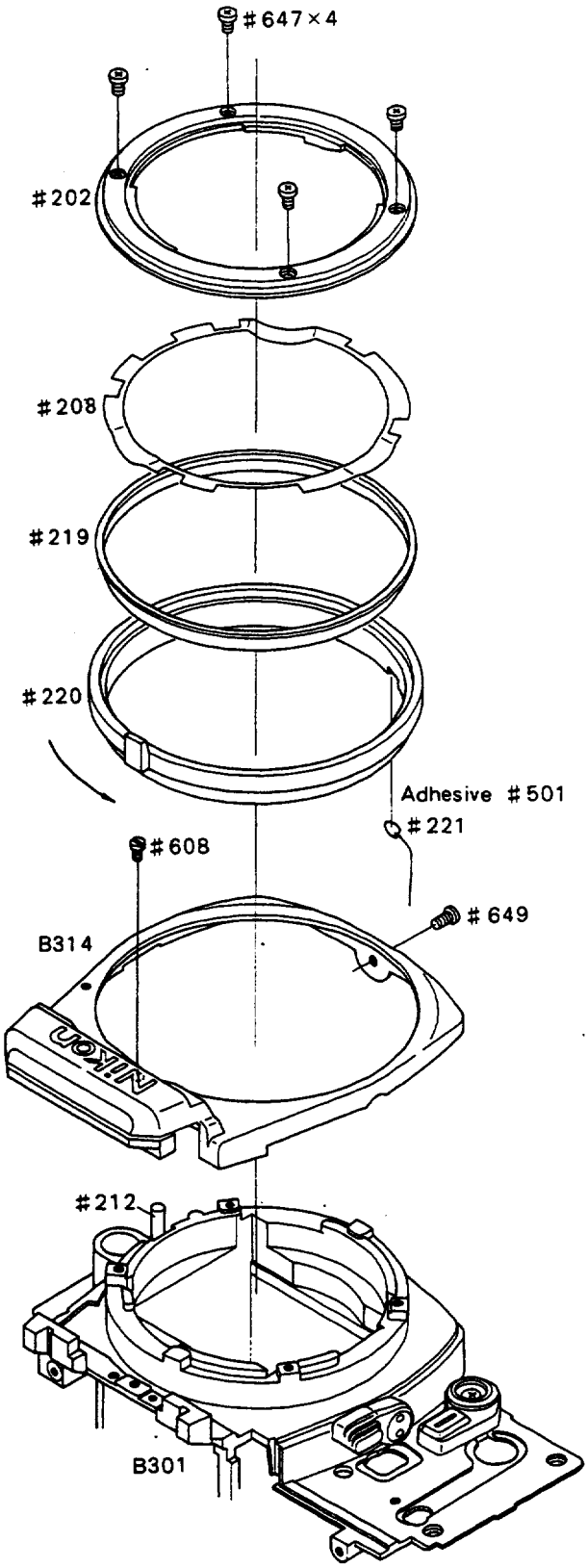
Torque: More than 85g (at the point of 1mm from the lever end)

(7) Signal lever #328

Distance (K): 1±0.15mm (after charging)

Release torque (P6): Less than 100g (at the point of 1mm from the lever end)

## 22. FRONT PLATE UNIT (FRONT COVER, COUPLING RING, BAYONET)




Front plate unit B301

↓

Front cover B314

⊕ #608
⊕ #649

↓

Coupling #220

Hook Meter coupling, string #221 to projection of #220 as shown in fig.26.
After installation, cement top of #221.

↓

Ring #219

↓

Bayonet spring #208

Align the cutouts with the front plate.

↓

Bayonet #202

⊕ #647x4

Fix Bayonet #202 after making suer that Lens release pin #212 is positioned in place.

Do not catch Bayonet speing #208 under Bayonet #202.

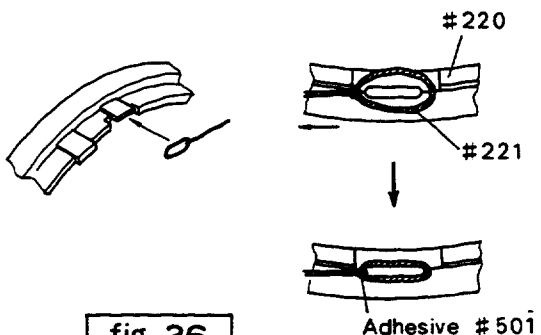
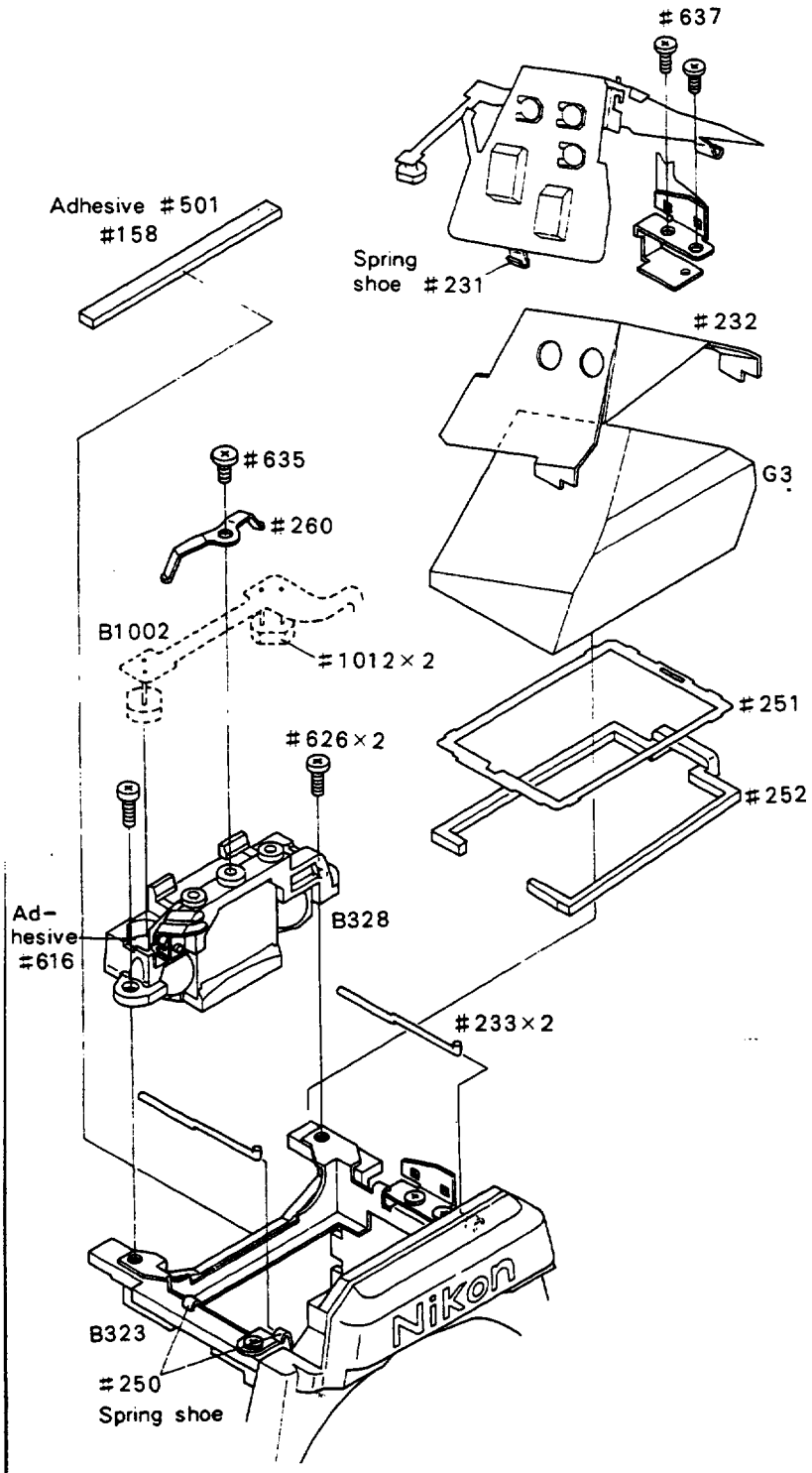



fig. 26

## 23. PENTAGONAL PRISM, EYEPIECE AND IC PRINTED CIRCUIT INSTALLATION




Prism box #250
↓
Finder field frame #251
Spacer #252
↓
Pentagonal prism G3
↓
Clean before installing
↓
Prism retrainer #232
IC printed circuit B1002
↓
Spring #233x2
↓
Hook the springs in the following order;
↓
Hook #250 (eyepiece-side)
↓
Prism-retaining plate #231
↓
Hook #250 (bayonet-side)
↓
Be careful not to scratch the prism.

Prism box B323 (front plate unit)
↓
Light-tight (#158)
↓
Eyepiece mold, B328
Screw ⊕ #626x2
↓
Clean the prism-side surface of eyepiece lens
↓
Photo diode #1012x2
↓
SBD printed board retainer #260
Screw ⊕ #635
↓
Apply adhesive into the cutout of B328 to cement #1012.
↓
Screw ⊕ #627x2

## 24. MIRROR 45° ANGLE, INFINITY FOCUS AND PICTURE ANGLE ADJUSTMENT

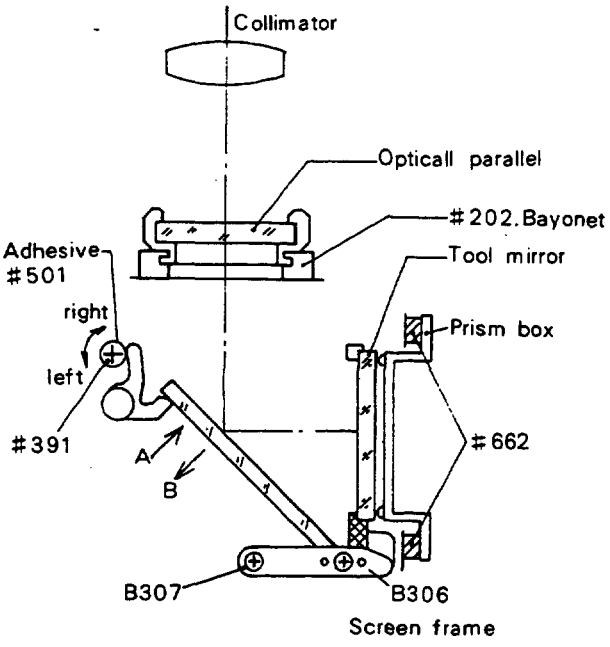



fig. 27

### (1) Mirror 45° angle adjustment

Tools: Optical parallel J18037
Mirror tool J18070
Collimator(f=500mm) J19002

Set J18037 on bayonet mount, install J18070 in screen frame (#245) and look through collimator J19002 to see if the images both on J18037 and on J18070 align. If not aligned, adjust as explained in table below. After adjustment, apply adhesive #501 on #391.

Note: 1) Place the camera back on the work surface with body top toward the collimator's post. If camera positioning is wrong images in the collimator will be varied.
2) Image view should not vary in several shutter releasing, nor before and after shutter cocking.

### (2) Mirror 45° Adjusting Table:

| | Upper | Lower | Left | Right |
|---|---|---|---|---|
| —— Image A<br>▬▬ Image B | down | up | ⟹ right | ⟸ left |
| How to align Image B on Image A | Rotate #391 clockwise, and mirror moves in B direction. | Rotate #391 counterclockwise, and mirror moves in A direction. | Add #662 washer to #662 at two positions on FRE side, but one only at each place. | Move B307 in the direction of arrow. |

Image A —— : Image on J18037 Image B ▬▬ : Image on J18070

### (3) Infinity (∞) focus adjustment

Tools: Lens tool 50mm F2(J18010), Collimator f=600mm(J19001)
Standard: Within 30"

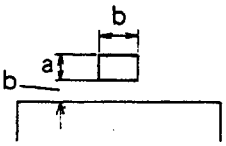
Coarse-adjust the focus by evenly raising or lowering the washers (#662A - U) located at four places under Mirror box. Then, fine-adjust the focus with Mirror 45°adjusting pin (eccentric) #391. After adjustment, be sure to secure #391 with adhesive #501.

### (4) Picture angle adjustment

Tools: Appropriate standard lens 50mm F1.4 as a tool. Test chart (J18006). Stage, focusing screen tool (J18033)
Standard: Parallax... Within 0.5mm in the aperture plane, vertically and horizontally
Finder view ... Inclination of Finder image against aperture plane to be within 1°30'

## 25. ADR WINDOW POSITIONING

Specified position of F-figure window $\frac{1}{2}b \sim 1b$




No remarkable tilting of window relative to viewfield frame is permitted.

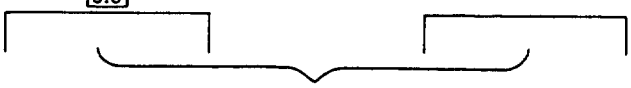
Position of window relative to viewfield frame

5.6 Tilted

Shift F-mask plate #237, or tilt F-mirror holder N1.

5.6 Too low

5.6 Too high



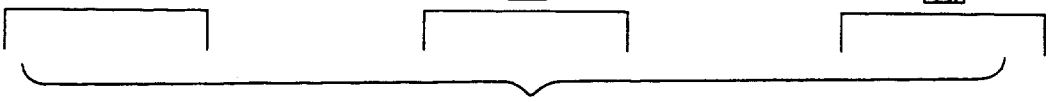
Tighten or loosen F-mirror adjusting screws ⊕ #875x2

Position of F-figure relative to window

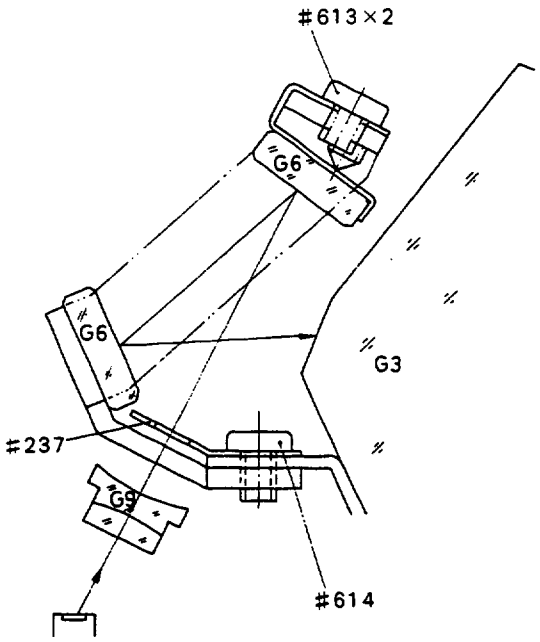
5.6 Right-sided

5.6 Left-sided

5.6 Too low

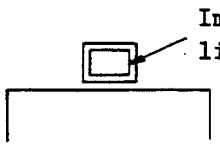


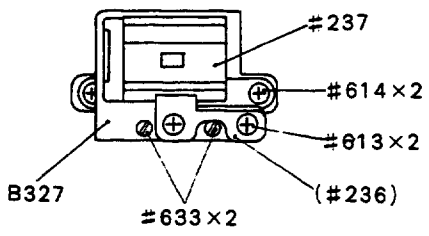
Shift F-mask plate #237



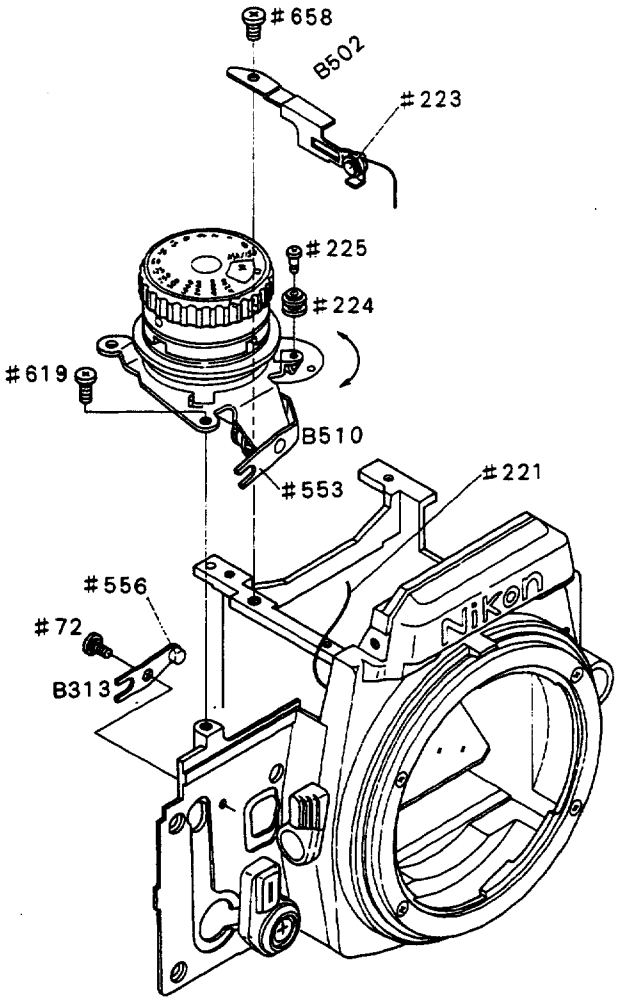

Ordinary AI lens, F-figure check gauge J18065, AI F-figure window check gauge J18063

When checking for correct position of the window, attach gauge J18063 onto camera bayonet. See that image of window frame line on the gauge appears in the F-figure window.



## 26. SHUTTER CONTROL UNIT INSTALLATION




Front plate unit B323

↓

Shutter control unit B510

Screw ⊕ #619

Place the tip of See-saw lever #553 on Mirror-up stop lever #329.

Be careful not to scratch the shutter speeds inner indicator.

↓

Roller spring B502

Screw ⊕ #658

Route String #221 on Roller #223 installed atop Roller spring B502.

↓

Roller, aperture coupling string #224

Screw ⊕ #225

Make sure smooth rotation of the roller.

↓

Release adjusting lever B313

Screw ⊕ #72

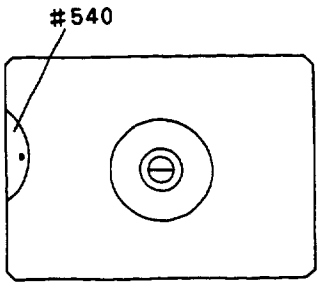
Release lever pin #556 installed atop the release adjusting lever should be coupled to the fork of See-saw lever #553.

### Shutter speed inner indicator #540

Turn shutter dial from B to X 200 and reverse.

Specification: Shutter speed figures be entirely visible.
Inclination of figures be within 5°.

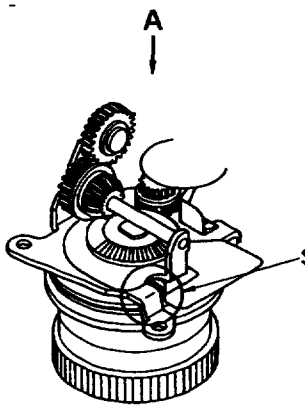
Adjustments can be made by positioning Shutter speed inner indicator #540 with inserting screwdriver blade through the access holes. After adjustments, cement Retainer #542 to secure the position.

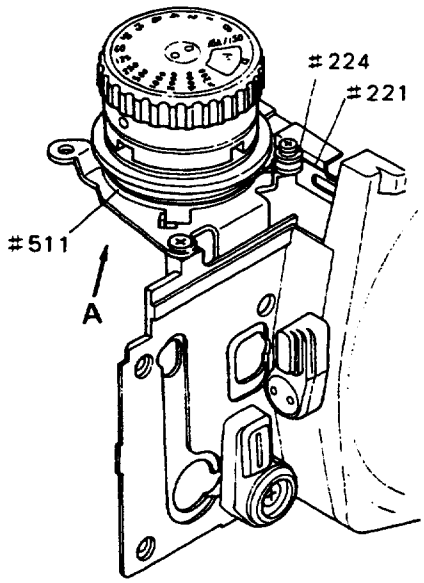


## 27. APERTURE COUPLING STRING TYING

Roller, aperture coupling string #223
↓
Roller, aperture coupling string #224
↓
Dial pully #511
↓
Dial pully axle #529

Hook the knot of the string to Dial pully axle #529 as shown in Figure 32.



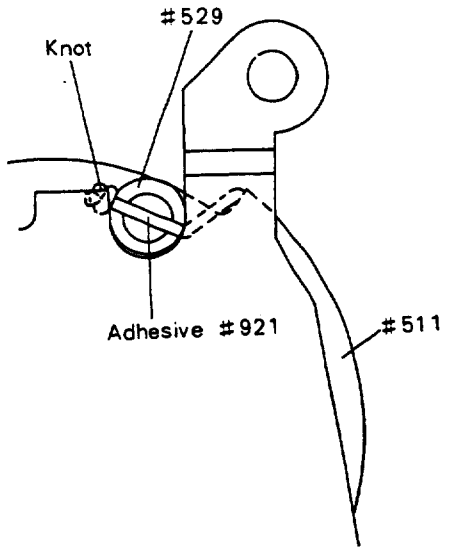
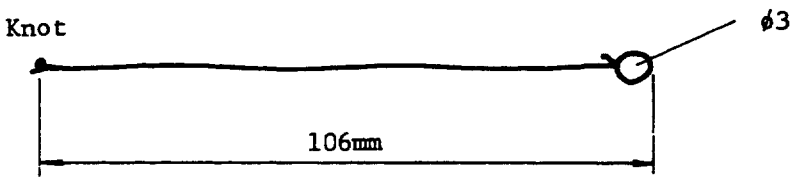




fig. 32

## HOW TO TIE #211



## 28. FRE POSITIONING WITH USE OF COLLAR #529

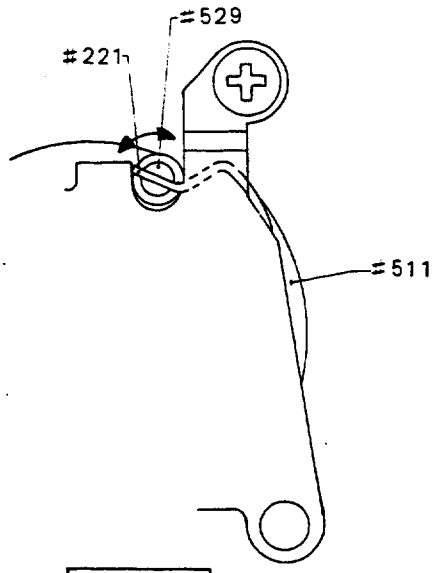



fig. 36

Tool: J18065

Mount tool J18065 to camera body and set click stop 1/3 by moving aperture ring from f/1.4 to f/2.
Make sure that Dial pully #511 should not turn at this setting. Adjustments can be made by turning Collar #529. Then, check if Dial pully #511 starts to turn when moving aperture ring from click stop 1/3 further to f/2.
Dial pully #511 should turn back smoothly when reversing aperture ring from f/16 to f/1.4.

### FRE resistance value adjustment

Tool: J9003-2 (Digital Multi-meter)
J18065

Use J9003-2 to measure resistance between GND and Lead wire (yellow) #1064.

Specification:

f=2 1.35kΩ ± 0.2kΩ

f=1.6 0.6kΩ ± 0.1kΩ

(Shutter speed - 1 sec. ASA=100)

Adjustments can be made by turning FRE #552 after loosening Screw #634x2.

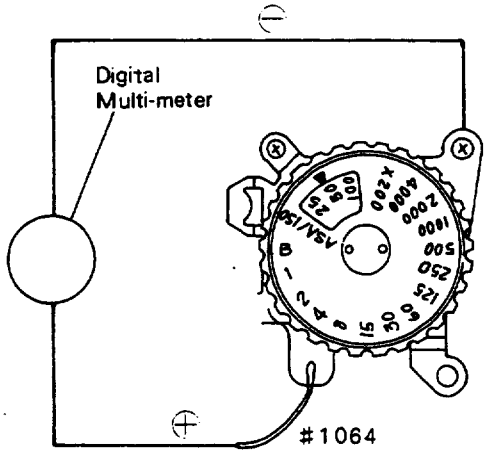



fig. 37

Check if the resistance value changes by degrees when turning aperture ring or shutter dial (especially when turning/ reversing aperture ring).

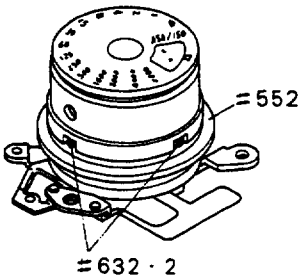



fig. 38

## 29. APERTURE COUPLING PIECE POSITIONING

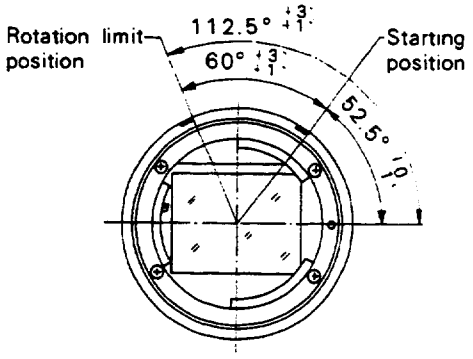



fig. 33 Positioning standard of aperture coupling ring

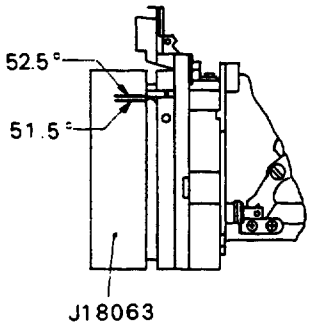



fig. 34 Aperture coupling piece starting position

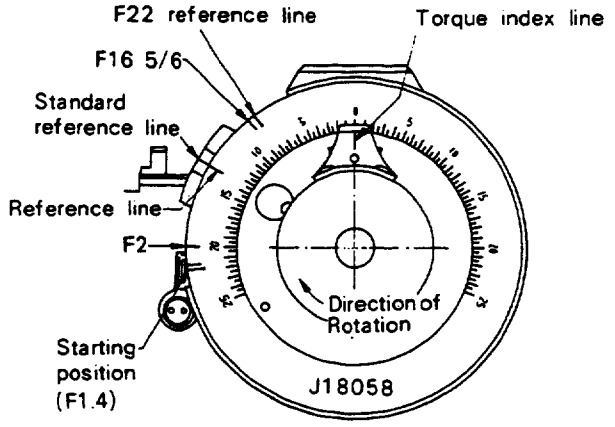



fig. 35 Torque index

Standard for
Aperture Coupling Piece Starting
Position and Maximum Angle of Rotation

Starting position: 52.5° +0° -1°

Maximum angle of rotation:
112.50° +3° +1°

Tool J18063

Refer to Figure 33.

Starting position checking

Mount F-number window checking gauge (J18063) onto bayonet.

Check that the right edge of #209 (lens release pin-side) is between two scales (52.5° & 51.5°) on J18063. If out of the scales, adjust by dislocating #222.

Refer to Figure 34.

Torque Standard

When rotating toward F22

at F16 5/6: 750g.cm or less

When rotating back toward max aperture

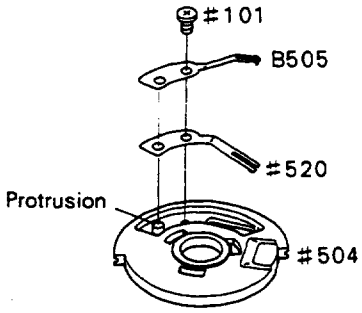
at F2 : 60g.cm or less

F1.4 reference line should surely return to align with the standard reference line.

How to measure

Mount the tool J18058 onto the bayonet. Align each reference line with the standard reference line, then rotate the tool's ring further to measure the torque when two lines separate.

## 30. DIAL PULLY INSTALLATION



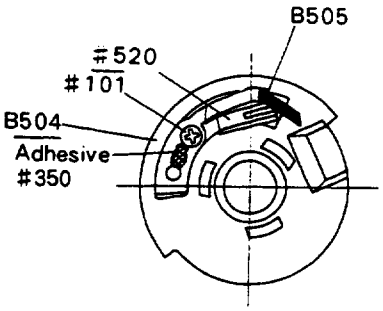




fig. 28

Dial pully B504

↓

FRE brush #520

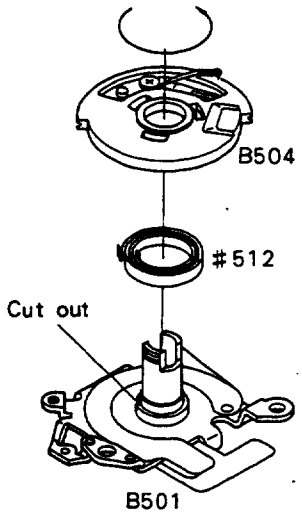
Brush A FRE, B505

Screw ⊕ #101

Align the openings of the brushes with the bosses of the pully.

Be careful not to deform the brushes

Apply Bond #350 onto the place as shown in Figure 28.



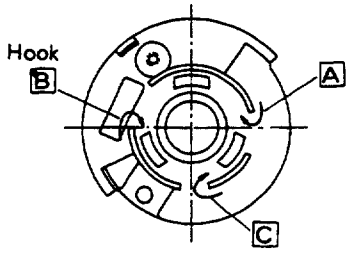




fig. 29 Spring hanging position

### Shutter control base installation

Shutter control base B501

↓

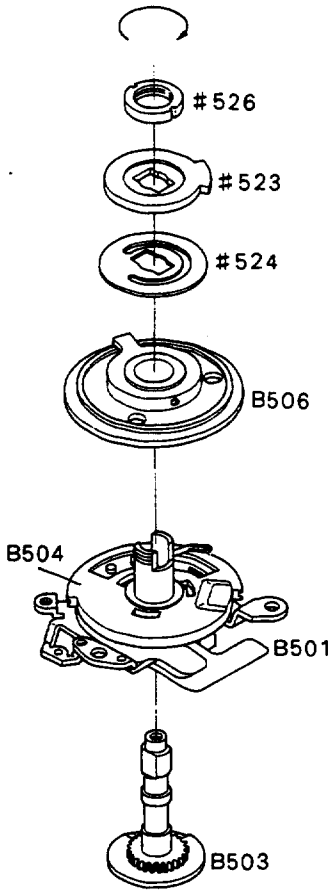
Dial pully B504

Hook one end of Pully spring #512 to Dial pully #511 as shown in Figure 29.

Hook the other end of the spring to the cutout of Shutter control base B501 and turn the pully counterclockwise about one full turn.

Be careful not to bend FRE brush #520.

## 31. FRE INSTALLATION




Shutter control base B501

↓

Shutter dial shaft bearing B503

Position Brush #527 in the center of contacts on the shutter control base, as shown in Figure 30 (shutter speed dial set to B). Note that two marks on Double gear #544 are positioned also as shown in Figure 30.

↓

FRE B506

↓

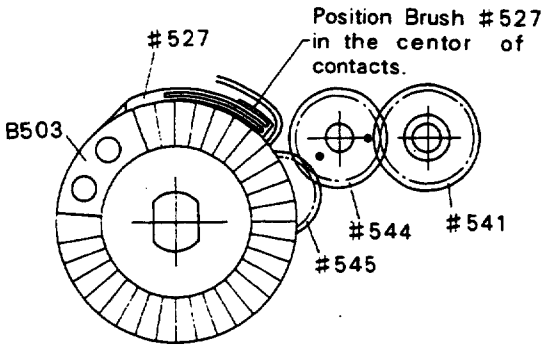
Disk, shutter control unit #524

↓

Shutter dial stopper #523

↓

Retainer, FRE #526



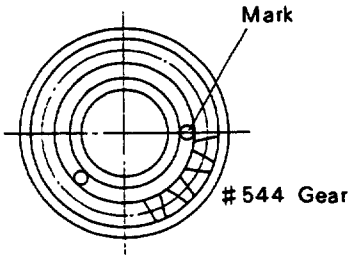
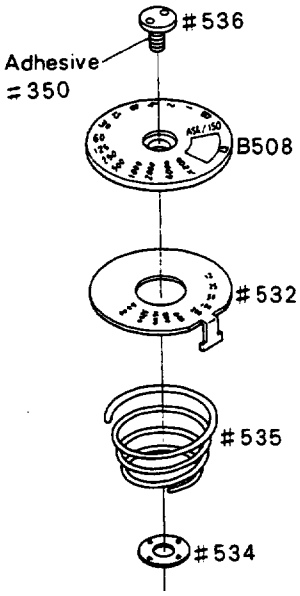




fig. 30 Shutter speed dial set to B

## 32. SHUTTER DIAL INSTALLATION




Shutter control base #501

↓ Shutter speed set to B

Steel ball #525

↓

Disk, shutter dial click #528

Clutch, shutter control unit #530

↓

Inner ring, shutter dial #534

↓

Washer, shutter dial #534

↓

Spring, shutter release button #535

↓

ASA calibration disk #532

↓

Shutter speeds disk B508

↓

Screw, shutter dial #536

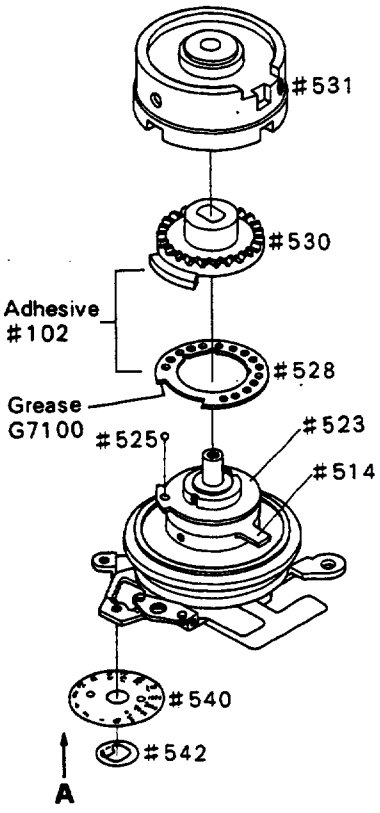
↓

Shutter speeds inner indicator #540

Refer to Figure 31.

↓

**Retainer,** shutter speeds inner indicator #542



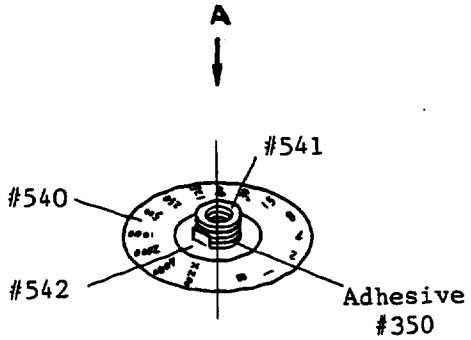




Fig.31

## 33. FRONT PLATE UNIT INSTALLATION

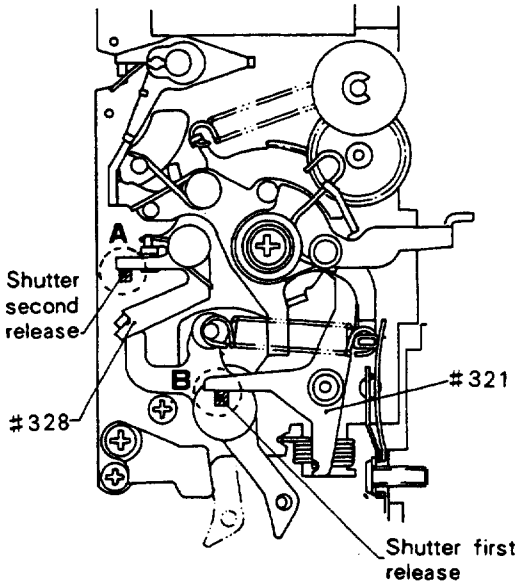



fig. 39

Camera body

Shutter unit should be in the charged condition, with shutter speed set to B.

Front plate unit B328

Screw ⊕ #643x5
Screw ⊕ #620

Mirror box mechanism should be in the charged condition. Shutter dial is set to B.

Install the front plate unit, with checking the following engagements;

A (Shutter release lever #321 / Shutter first release

B (Signal lever #328 / Shutter second release

C (Eccentric screw #67 / Release adjusting lever B313

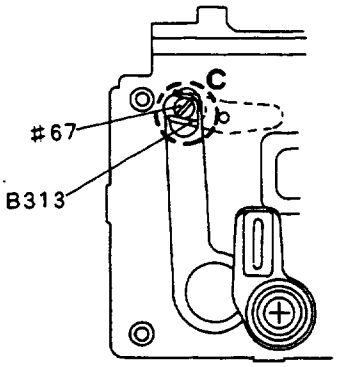



fig. 40

Place and hold front plate unit toward the arrow direction as shown in Figure 41. Use the opening to check if there is clearance of about 0.2mm between the addendum of shutter unit gear and the root of shutter control unit gear (Shutter idle gear #509)

Screws #643 and #620 should be tightened in the order as shown in Figure 41.

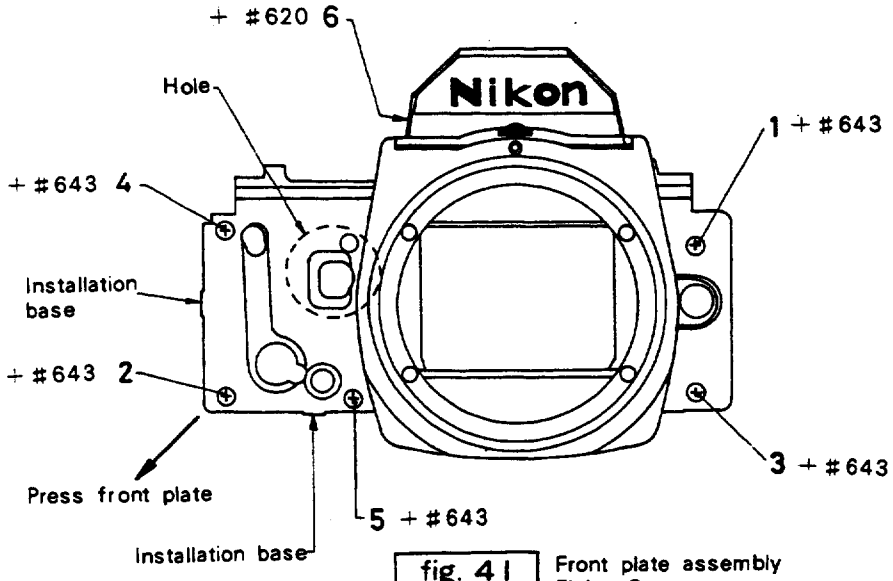



fig. 41 Front plate assembly Fixing Sequence

## 34. SHUTTER UNIT GEAR POSITIONING

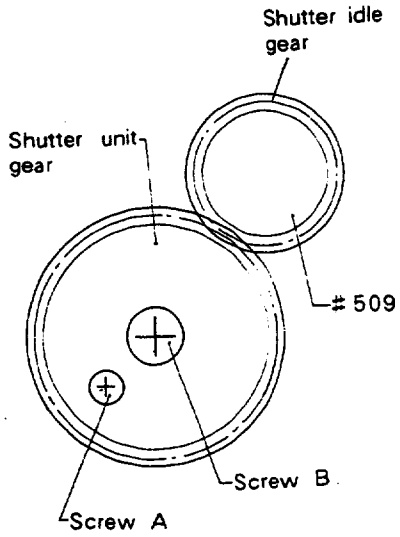



fig. 42

1. Turn shutter dial to set 1/30 and stop shutter unit gear to 1/30 click.
2. Loosen two screws securing shutter unit gear, with holding shutter dial to help stop the gear.
3. Turn shutter dial to stop Shutter idle gear #509 to 1/30 click.
4. Tighten two screws securing shutter unit, with holding shutter dial to help stop the gear engagement adjusted.
5. After positioning, turn shutter dial to check click stops at all shutter speeds from X200 to B.

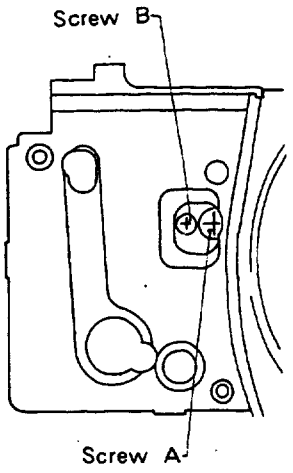



fig. 43

Checking after front plate unit installation

a. Flange focal distance

Tool: J18001-1, J19004
Specification: 46.67±0.02mm (outer film rail)

b. Blank-exposure preventing lever

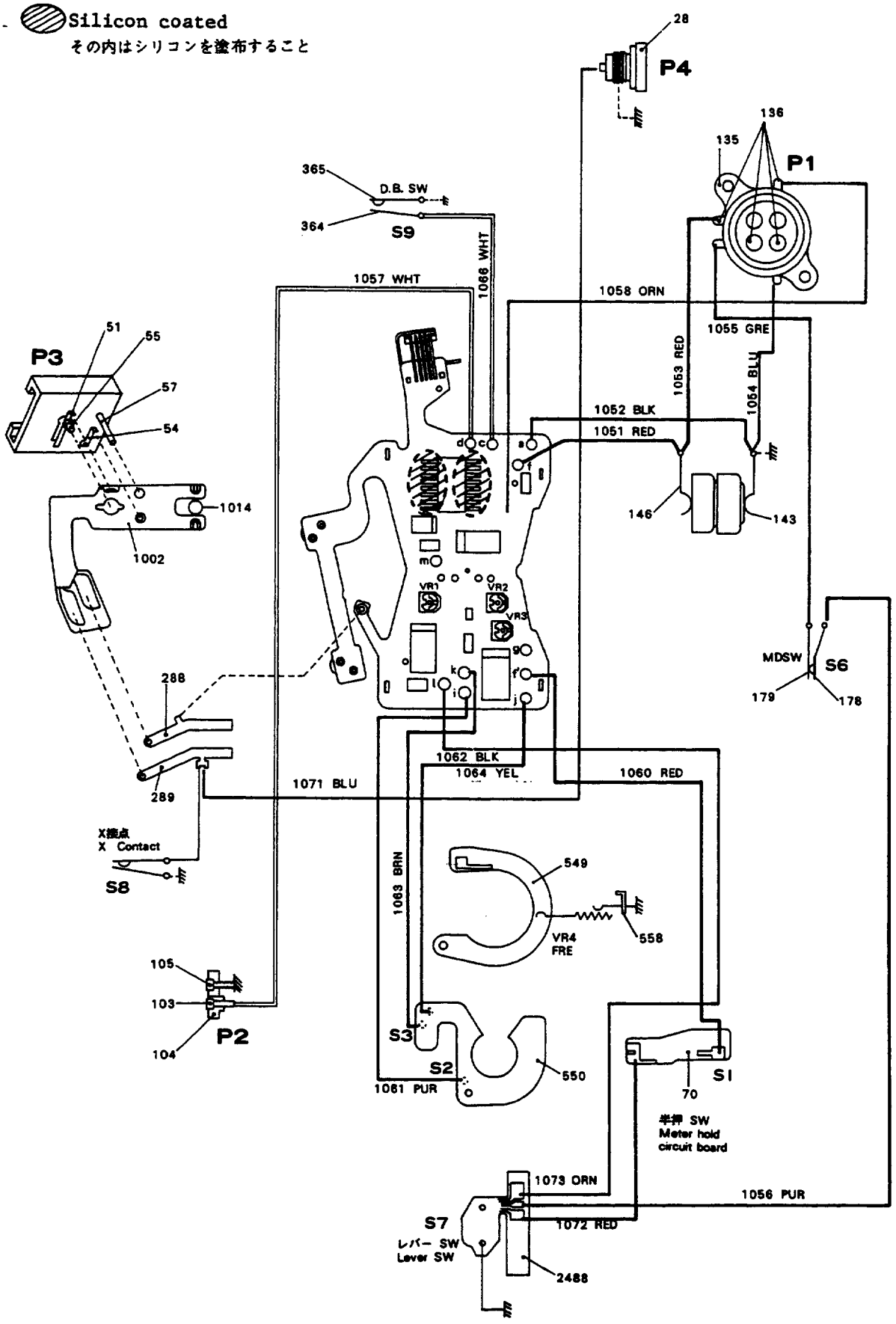
After returning the film-advance lever slowly, make sure that the film-advance lever is not be wound again with reverse of pendulum.

c. Mirror charge

Use Tool J18065 and set aperture to f/16. Then, wind film-advance lever. Repeat slow chargings several times to make sure that mirror is charged properly.

半田づけの注意は他のボディに準ずる

Silicon coated
その内はシリコンを塗布すること



## 36. METER ACCURACY ADJUSTMENT

1) γ-adjustment (At EV 15)

Measuring method

Using 50mm/1.4 lens, set ASA to 100, shutter speed to 1/500 sec. and aperture to f/8.

+ ○
○ ● Control VR #105 so that only this LED lights.
− ○

● represents lighting of LED

2) Shift-adjustment (At EV 4)

Measuring method

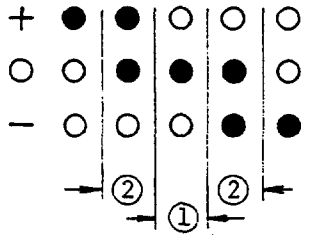
Using 50mm/1.4 lens, set ASA to 100, shutter speed to 1/2 sec. and aperture to f/2.8.

+ ○
○ ● Control VR #106 so that only this LED lights.
− ○

3) Checking all accuracies at EV 4, 6, 9, 11 and 15

Measuring method

Using 50mm/1.4 lens, set ASA to 100, setting shutter speed and aperture to all combination values.



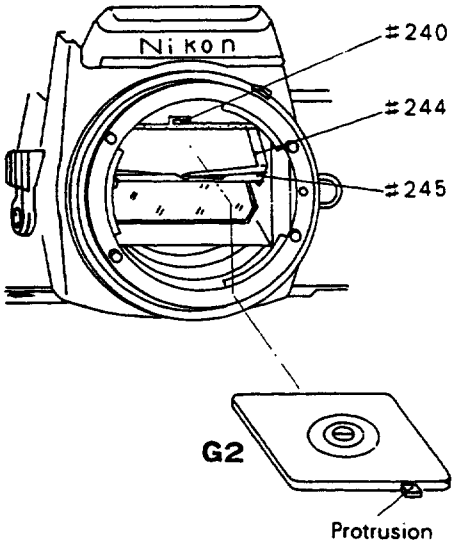

Zone-①, correct exposure point ±0.5EV

Dead zone, 0.3 - 0.6EV

Zone-②, Two-LEDs lighting range - 0.7 - 1.1EV

Make sure that 5 step indications are accomplished positively. Though the dial or ring is turned within their click slacks or other slacks, no other LED lights.

## 37. FOCUSING SCREEN AND MIRROR REPLACEMENT




### (1) Focusing screen (G2)

To remove G2, pull screen lock spring (#240) toward you, and screen frame (#245) falls down, ready for G2 removal.

Hold the protrusion on G2 with tweezers to prevent G2 from scratch.

Cleaning G2, place G2 on #245 with split plane up and the protrusion toward you.

Press up #245 until #245 locked with #240, being careful of G2 not to disengage from screen frame spring (#244).

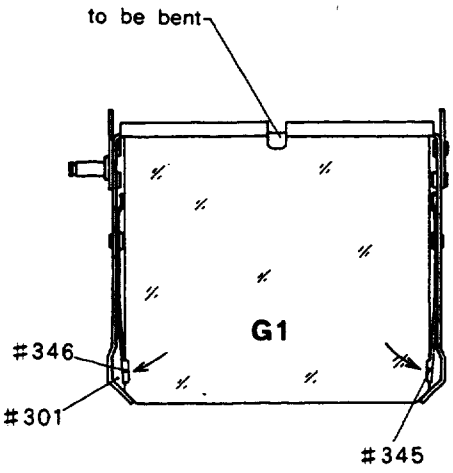



fig. 44 Mirror holder

### (2) Mirror (G1)

Remove Mirror(G1) by pressing mirror holder A(#345) and B(#346) with a small screwdriver in the direction of arrow (See Fig.44).

Reinstall G1 in place as follows; Clean the faying surfaces of G1 and mirror holder(#301).

Apply adhesive #501 at two places on #301 (See Fig.45).

Place mirror in place.

Be careful not to transform #345 nor #346 and not to scratch mirror

To make sure the proper mirror installation, look through viewfinder for blur-free image at four corners.

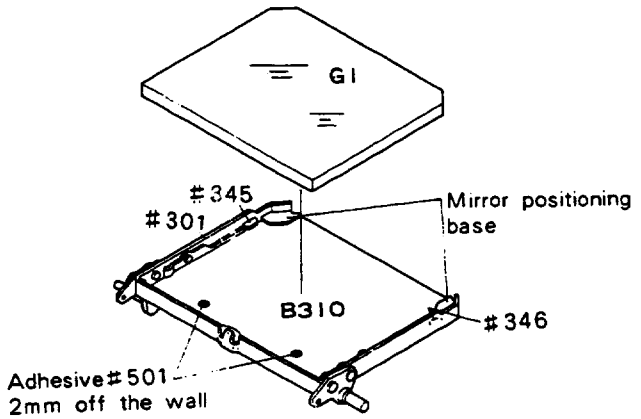



fig. 45 Mirror replacement

## 38. MD SWITCH FUNCTION CHECK

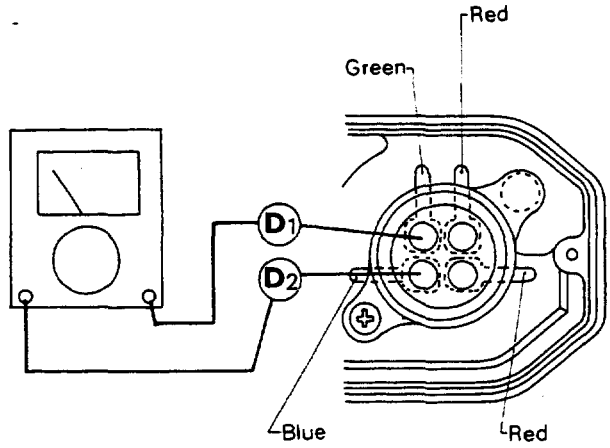



fig. 46

Connect an ohm-meter tc terminals D1 and D2 as shown in Figure 46.

Adjustments can be made by bending switch blades to increase/reduce the contact space.

Contact space: 1.5mm (OFF)

| MD WINDING SWITCH | | MD SWITCH | | METER READING |
|---|---|---|---|---|
| WINDING | SWITCH | FILM-ADVANCE LEVER | SWITCH | |
| BEFORE | ON | RETRACT | ON | 0 Ω |
| | | STAND-OFF | OFF | ∞ |
| IN | ON | RETRACT | ON | 0 Ω |
| | | STAND-OFF | OFF | ∞ |
| AFTER | OFF | RETRACT | ON | ∞ |
| | | STAND-OFF | OFF | ∞ |

## 39. ACCESSORY SHOE FUNCTION CHECK

Tool: J15147

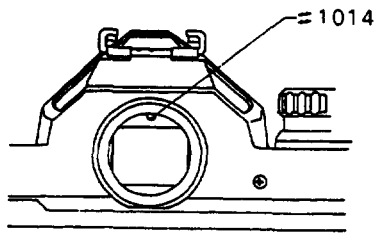



fig. 47

1) Check ready-light LED glow

| SHUTTER SPEED SETTINGS | LED |
|---|---|
| 1/4000-1/250 | BLINKING |
| 1/125,B,X200 | GLOW |

2) Check conductivity of accessory shoe against LED's glow of Tool J15147

## 40. SHUTTER RELEASE STROKE CHECK

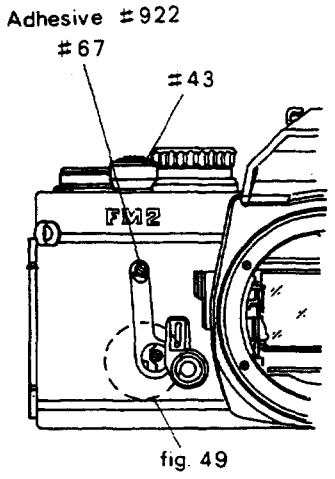



fig. 48

Specification:

Whole stroke: 2.5±0.3mm

Release stroke: 0 - -0.4mm
(from the top of Release button cover ring #43)

Adjustments can be made by turning Eccentric screw #67.

### Meter switch check

Specification:

Switch-ON stroke: 0.3mm (from the top of Release button cover ring #43)

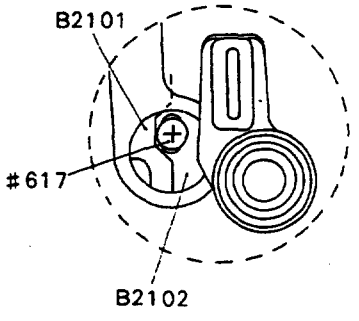



fig. 49

Adjustments can be made by re-positioning Circuit board B2102 after loosening Screw #617.

Make sure that retracting film-advance lever cancels meter switch when shutter release button is halfway depressed.

# ELECTRIC CIRCUIT

Contents Page

[1] PRECAUTIONS ..... E1

[2] CHECK LANDS

1. Circuit Diagram ..... E2
2. #1001 Checking Lands ..... E3
3. IC's Pins : Reference Voltage ..... E4
4. Wiring Diagram ..... E5

[3] EXPOSURE METER BLOCK DIAGRAM ..... E6

[4] CIRCUIT OPERATION OUTLINE ..... E7

[5] EXPOSURE READOUT LED ..... E8

[6] READY-LIGHT LED ..... E13

[7] MOTOR DRIVE ..... E14

[8] SPEED LIGHT FAILS TO FIRE

[9] DATA BACK SW (S9) FAILS TO TURN ON

## [1] PRECAUTIONS

1. IC circuit board should not be touched barely. Use cotton gloves.
2. Be careful neither to deform leads of LEDs nor to move brushes of variable resistor.
3. Stick test prod into moisture-proof silicon coating to reach the terminal checked. Otherwise, the measurement results in error.
4. Voltage checking should be made on GND basis in principle.
5. VR1 for battery checker as a spare part is completely adjusted when shipped out from factory. Thus, it is not necessary to make adjustments after installation.
6. If necessary:

   6-1. VBC (Voltage of Battery Checker) = 2.34±60mV

   At temperatures 20°C-28°C
   Use Tool J15148 and a voltmeter (tracing capacity: 1mV) to check VBC.

   6-2. When VBC is out of standards, first measure the environment temperature and figure out the reference value of VBC in the following formula:

   $VBC=2.34+0.004(T-25)\pm25mV$

   T:temperature (°C)

   Then, make adjustments against the reference value calculated.

### ABBREVIATIONS

ICC : Power current

VCC : Power voltage

VBC : Battery checker voltage

⑯ : Number of pin of IC

⑨ : Number of check land of FPC

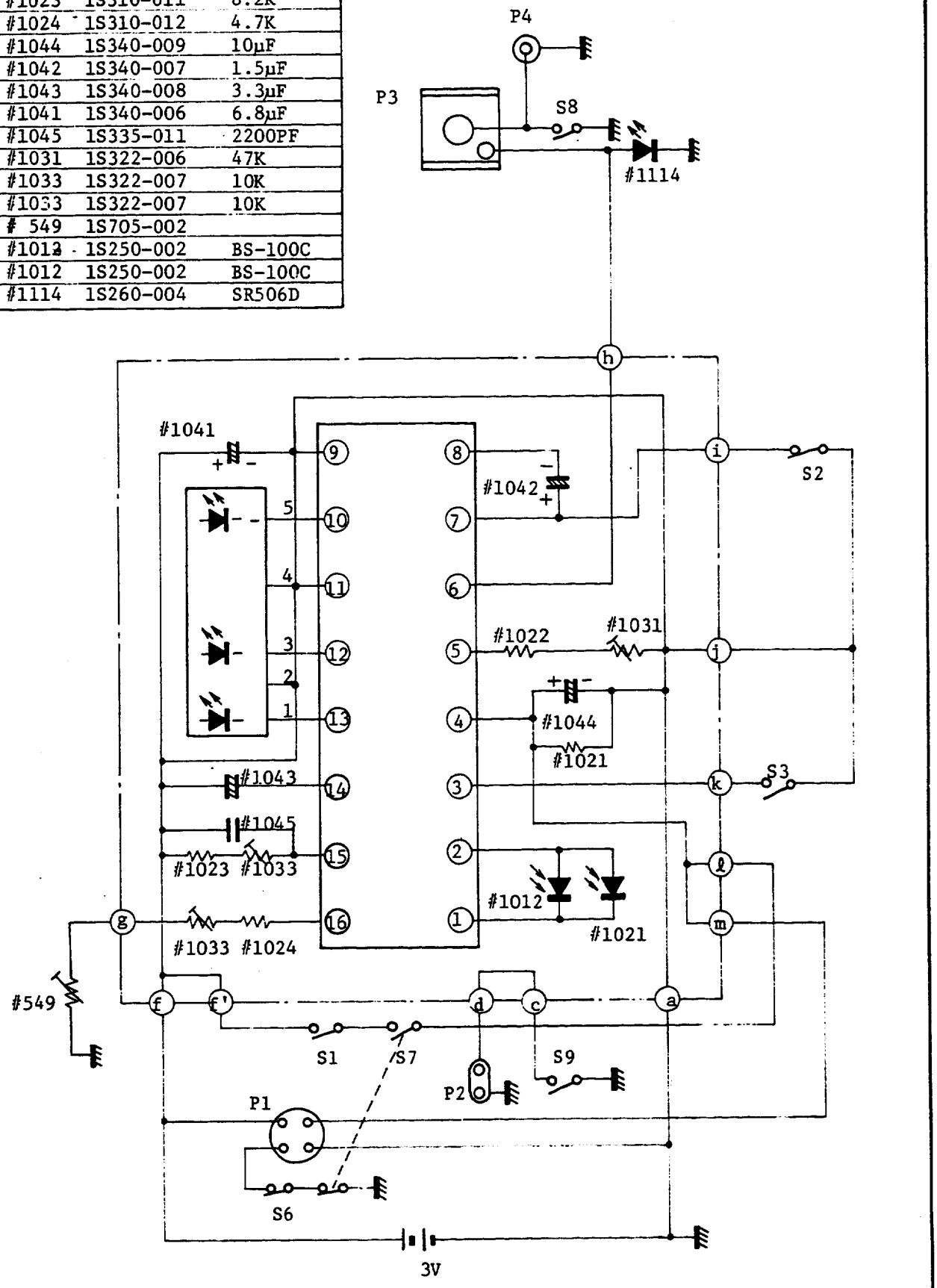
V ⑯ : Voltage of ⑯ pin of IC

[2] 配置図 CHECK LANDS

1. 回路図 Circuit Diagram

FAA14001 - R.3110.A

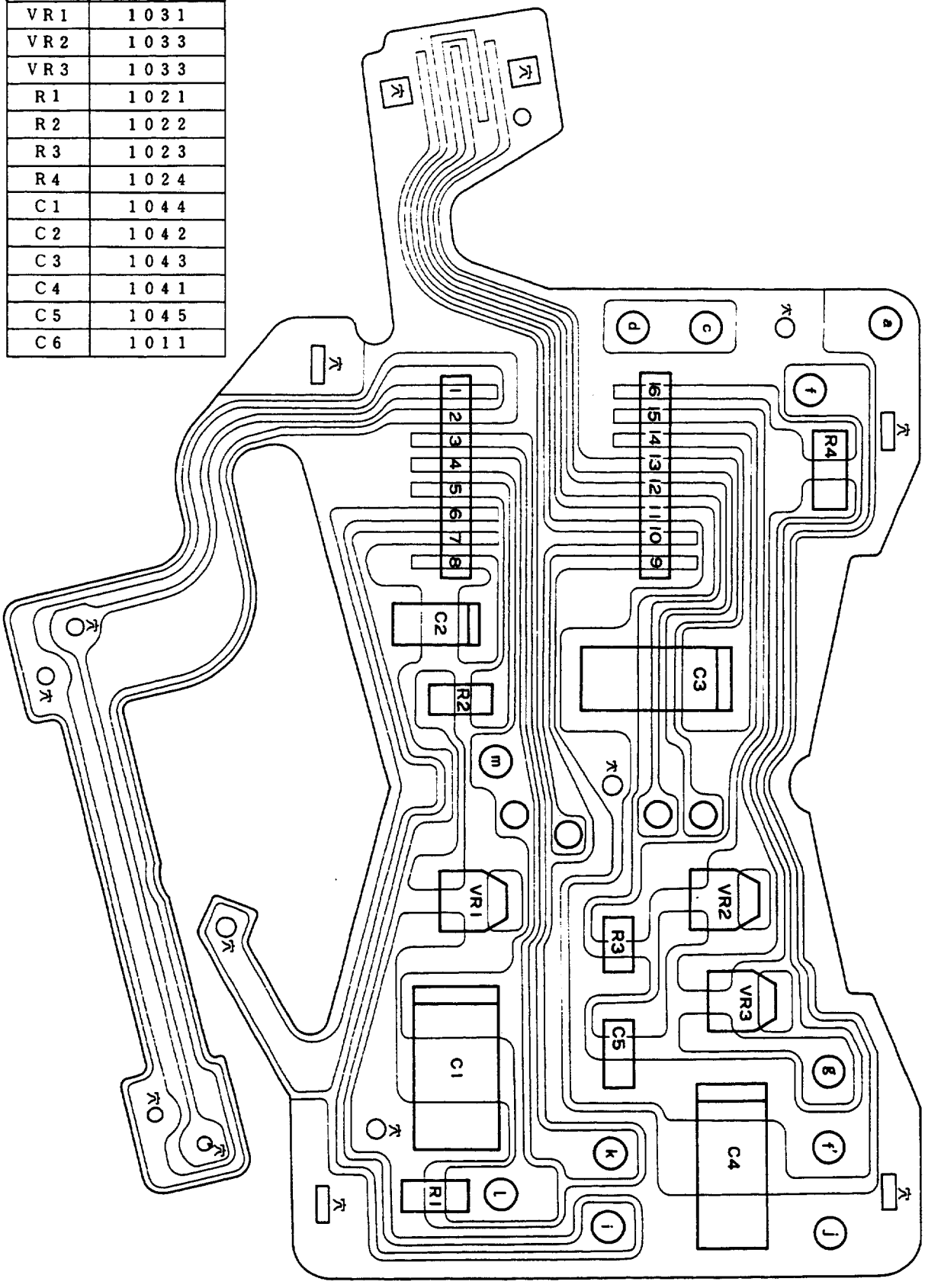
| | | |
|---|---|---|
| #1021 | 1S310-009 | 3.3M |
| #1022 | 1S310-010 | 39K |
| #1023 | 1S310-011 | 8.2K |
| #1024 | 1S310-012 | 4.7K |
| #1044 | 1S340-009 | 10μF |
| #1042 | 1S340-007 | 1.5μF |
| #1043 | 1S340-008 | 3.3μF |
| #1041 | 1S340-006 | 6.8μF |
| #1045 | 1S335-011 | 2200PF |
| #1031 | 1S322-006 | 47K |
| #1033 | 1S322-007 | 10K |
| #1033 | 1S322-007 | 10K |
| # 549 | 1S705-002 | |
| #1013 | 1S250-002 | BS-100C |
| #1012 | 1S250-002 | BS-100C |
| #1114 | 1S260-004 | SR506D |



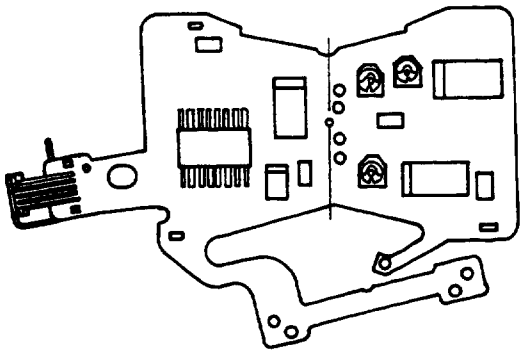
## 2．#1001 チェックランド Checking lands

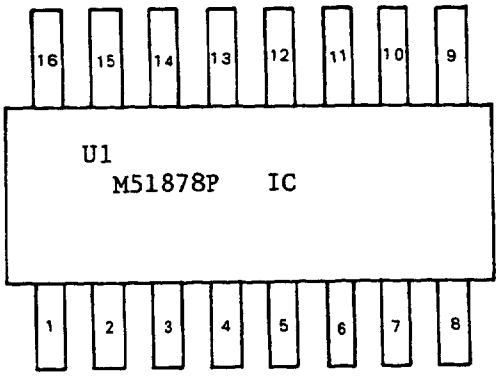
FAA14001-R.3110.A

| 部品名 Mark | 補助番号 Ckt. No. |
|---|---|
| VR1 | 1031 |
| VR2 | 1033 |
| VR3 | 1033 |
| R1 | 1021 |
| R2 | 1022 |
| R3 | 1023 |
| R4 | 1024 |
| C1 | 1044 |
| C2 | 1042 |
| C3 | 1043 |
| C4 | 1041 |
| C5 | 1045 |
| C6 | 1011 |



## 3. IC'S PINS: REFERENCES VOLTAGE





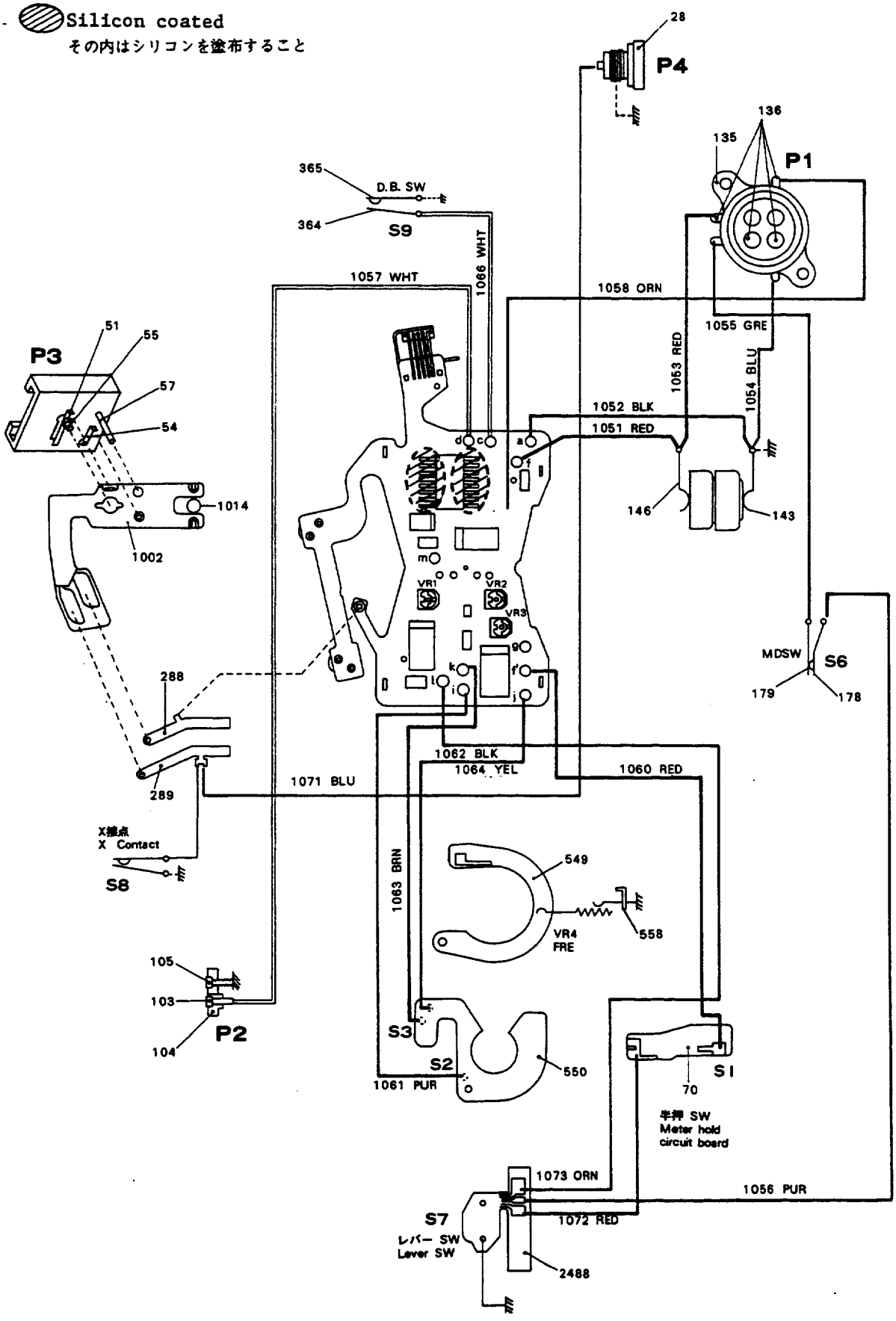

VCC=3V (GND BASIS)

| PIN | REFERENCE VOLTAGE | OPERATION OF CIRCUITRY |
|---|---|---|
| ① | 380 mV | MOS logarithmic compression |
| ② | 380 mV | MOS logarithmic compression |
| ③ | 0.6 V | Input signal terminal: B, X200 |
| ④ | 3.0 V | Meter hold |
| ⑤ | 2.2 V | Battery checker |
| ⑨ | 0 V | GND |
| ⑩ | ON 1.5V OFF 2.0V | LED − |
| ⑪ | 3.0 V | VCC |
| ⑫ | ON 1.5V OFF 2.0V | LED ◎ |
| ⑬ | ON 1.5V OFF 2.0V | LED + |
| ⑭ | 1.6V - 2.7V | Process output 72mV/EV |
| ⑮ | 2.75V | - adjustments voltage |
| ⑯ | 0.2V - 0.6V | Exposure factors setting 18mV/EV |

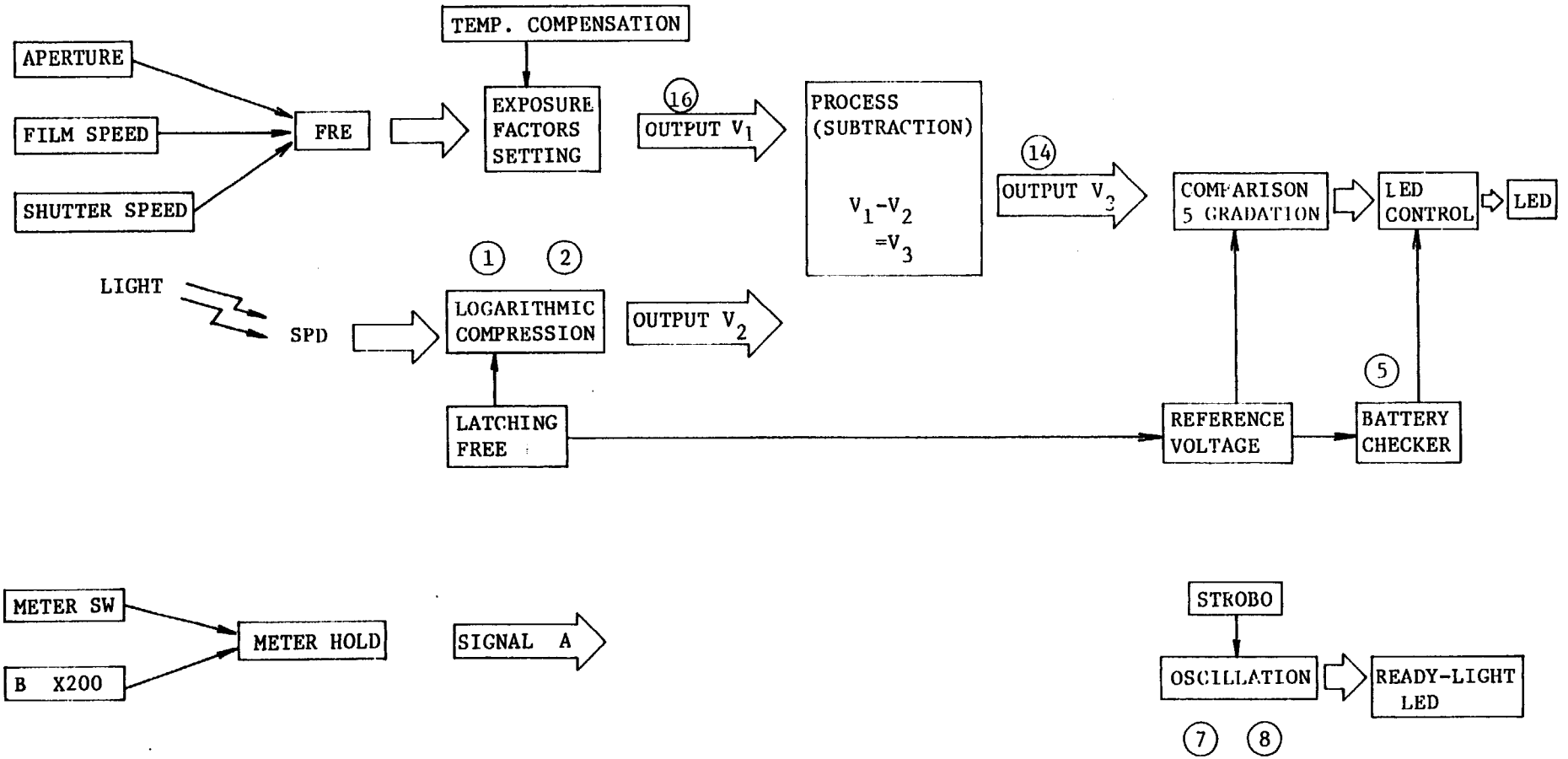
| | STROBO | | Recycling | |
|---|---|---|---|---|
| | OFF | ON | | |
| ⑥ | 0 V | 2 V | 2 V / 1.4V | Input terminal |
| ⑦ | 0 V | 0 V | 0.6V / 0 V | Oscillation terminal |
| ⑧ | 0 V | 0.6V | 0.6V / 0 V | Oscillation terminal |

半田づけの注意は他のボディに準ずる

Silicon coated
その内はシリコンを塗布すること



[3] EXPOSURE METER BLOCK DIAGRAM




SIGNAL A TURNS OFF IC

## [4] CIRCUIT OPERATION OUTLINE

This exposure meter checks the lighting situations against the correlation of film speed, shutter speed and aperture in use. Exposure readout is through the triple LED display. The three LED's combine to provide five different gradations.

SPD changes the light evergy into the current flow. The current flow is converted through the MOS logarithmic time compression circuit into the voltage (V2). On the other hand, film speed, shutter speed and aperture in use are converted through FRE into the resistance value, which is changed again into the voltage (V1) in the exposure factors setting circuit. V1 and V2 are combined in the process circuit to output the voltage (V3). V3 is related to four reference voltages in the comparison circuit and sorted to five different gradations; ✣,✣◎,◎,◎▭,▭ It allows the pertaining LED's to glow in the viewfinder.

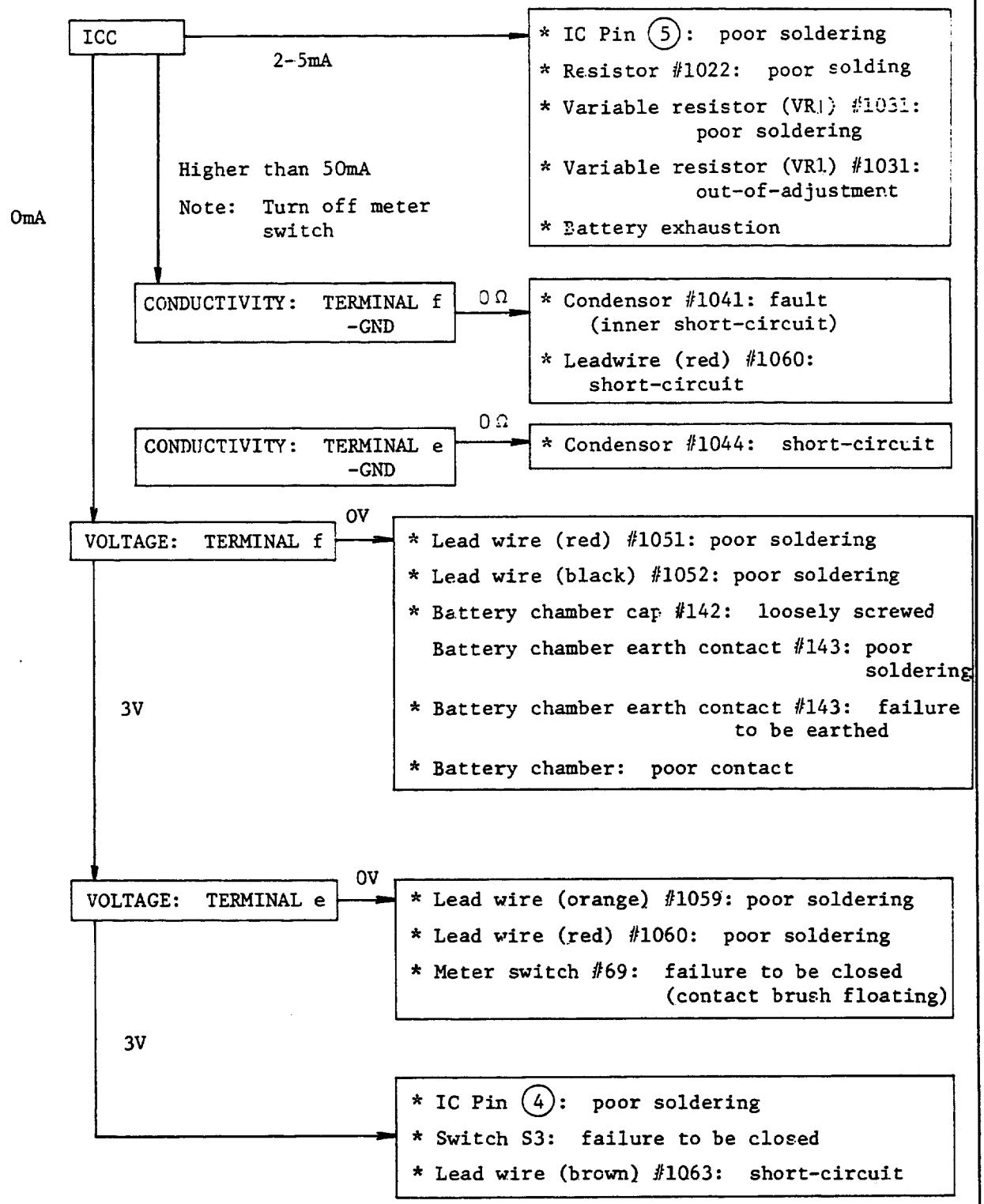
The exposure factors setting circuit is provided with the temperature compensation circuit in order to avoid the temperature influence on the accuracy of metering.
The latching free circuit makes the whole circuit operation stable instantly when the light situation is of low luminosity or when the batteries are exchanged.

The battery checker circuit turns off LED's when the voltage of batteries installed goes down to approx. 2.34V (25°C). The reference voltage will be reduced at low temperatures so that the battery checker may not cut off the life of batteries temporarily incapacitated.

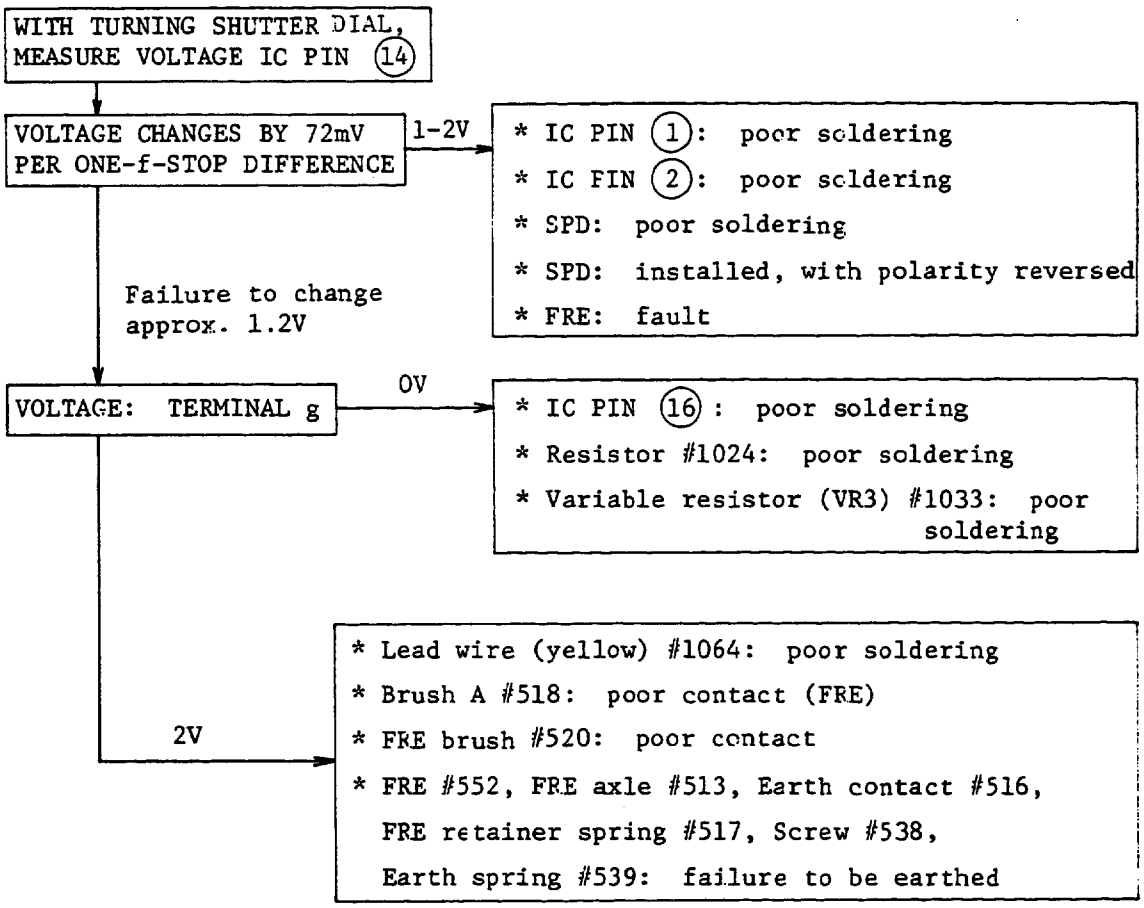
Shutter release button switches meter on when depressed halfway; the meter hold circuit permits meter to remain on for approx. 30 sec. after finger is taken off button. This device is canceled by turning shutter dial to Bulb or X200. When the speed-light mounted, the ready-light glows at the finder eyepiece. It blinks to warn out-of-synchronization shutter speeds from 1/250 sec. to 1/4000 sec.

## [5] EXPOSURE READOUT LED

1. FAILURE TO GLOW ⟶ CHECK POWER SUPPLY CIRCUIT


ICC
2-5mA
* IC Pin (5): poor soldering
* Resistor #1022: poor solding
* Variable resistor (VR1) #1031: poor soldering
* Variable resistor (VR1) #1031: out-of-adjustment
* Battery exhaustion
Higher than 50mA
Note: Turn off meter switch
0mA
CONDUCTIVITY: TERMINAL f -GND
0Ω
* Condensor #1041: fault (inner short-circuit)
* Leadwire (red) #1060: short-circuit
CONDUCTIVITY: TERMINAL e -GND
0Ω
* Condensor #1044: short-circuit
VOLTAGE: TERMINAL f
0V
* Lead wire (red) #1051: poor soldering
* Lead wire (black) #1052: poor soldering
* Battery chamber cap #142: loosely screwed
Battery chamber earth contact #143: poor soldering
* Battery chamber earth contact #143: failure to be earthed
* Battery chamber: poor contact
3V
VOLTAGE: TERMINAL e
0V
* Lead wire (orange) #1059: poor soldering
* Lead wire (red) #1060: poor soldering
* Meter switch #69: failure to be closed (contact brush floating)
3V
* IC Pin (4): poor soldering
* Switch S3: failure to be closed
* Lead wire (brown) #1063: short-circuit

2. LED FAILS TO CHANGE READOUT ⟹ CHECK FRE AND SPD


WITH TURNING SHUTTER DIAL, MEASURE VOLTAGE IC PIN (14)
VOLTAGE CHANGES BY 72mV PER ONE-f-STOP DIFFERENCE
1-2V
* IC PIN (1): poor soldering
* IC FIN (2): poor soldering
* SPD: poor soldering
* SPD: installed, with polarity reversed
* FRE: fault
Failure to change approx. 1.2V
VOLTAGE: TERMINAL g
0V
* IC PIN (16): poor soldering
* Resistor #1024: poor soldering
* Variable resistor (VR3) #1033: poor soldering
2V
* Lead wire (yellow) #1064: poor soldering
* Brush A #518: poor contact (FRE)
* FRE brush #520: poor contact
* FRE #552, FRE axle #513, Earth contact #516, FRE retainer spring #517, Screw #538, Earth spring #539: failure to be earthed

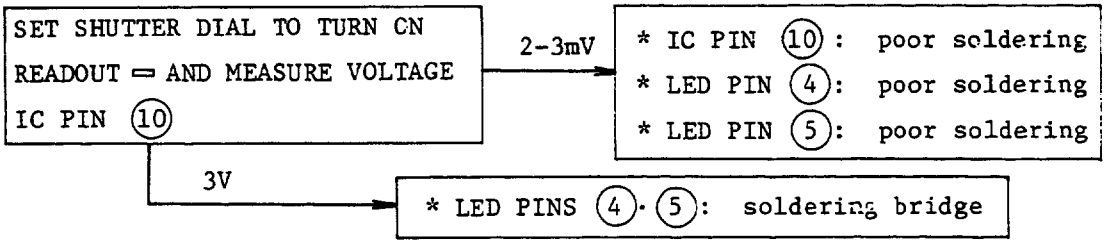
3. LED FAILS TO CHANGE READOUT ✣ ⟶ CHECK IC PIN (15)

* IC PIN (15): poor soldering
* Resistor #1023: poor soldering
* Variable resistor #1033 (VR2): poor soldering
* Condensor #1043: fault (inner short-circuit)
* Lead wire (yellow) #1064: short-circuit

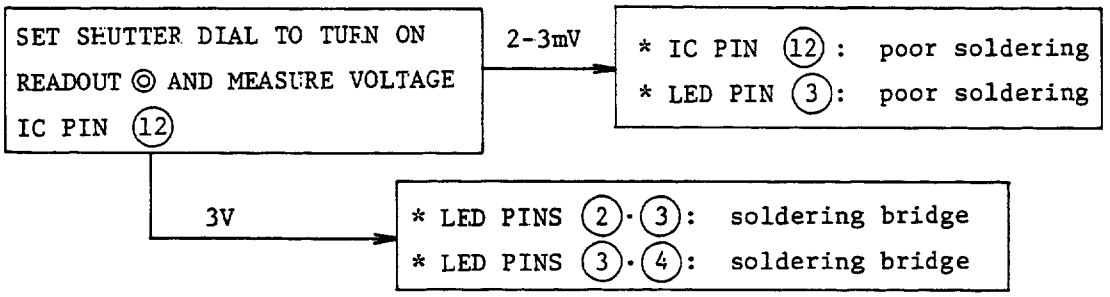
(1) LED FAILS TO CHANGE READOUT ✣ AT SHUTTER SPEED SETTINGS FROM B TO 125, X200 (LED WILL TURN OFF AT SETTINGS FROM 250 TO 4000)

* IC PIN (9): poor soldering

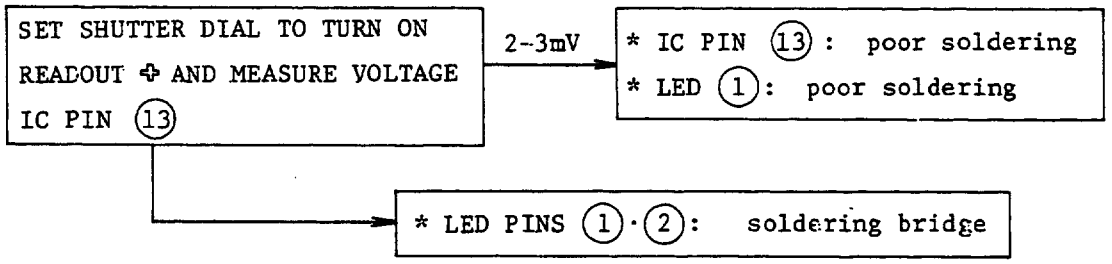
4. LED FAILS TO TURN ON READOUT ▭


SET SHUTTER DIAL TO TURN ON
READOUT ▭ AND MEASURE VOLTAGE
IC PIN (10)
2-3mV
* IC PIN (10) : poor soldering
* LED PIN (4): poor soldering
* LED PIN (5): poor soldering
3V
* LED PINS (4)·(5): soldering bridge

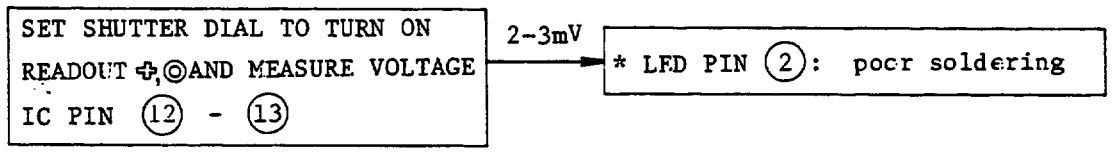
5. LED FAILS TO TURN ON READOUT ◎


SET SHUTTER DIAL TO TURN ON
READOUT ◎ AND MEASURE VOLTAGE
IC PIN (12)
2-3mV
* IC PIN (12) : poor soldering
* LED PIN (3): poor soldering
3V
* LED PINS (2)·(3): soldering bridge
* LED PINS (3)·(4): soldering bridge

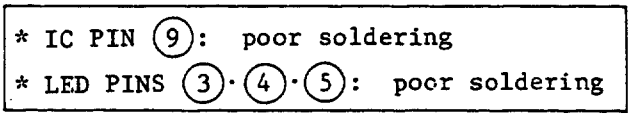
6. LED FAILS TO TURN ON READOUT ✣


SET SHUTTER DIAL TO TURN ON
READOUT ✣ AND MEASURE VOLTAGE
IC PIN (13)
2-3mV
* IC PIN (13) : poor soldering
* LED (1): poor soldering
* LED PINS (1)·(2): soldering bridge

7. LED FAILS TO TURN ON READOUTS ✣ ◎




8. LED FAILS TO TURN ON READOUTS ▭ ◎



9. LED TURNS ON ALL READOUTS ✣ ◎ ═ SIMULTANEOUSLY

* IC PIN (11): poor soldering
* IC PIN (14): poor soldering
* Condensor #1043: poor soldering or fault

(1) LED TURNS ON ALL READOUTS ✣ ◎ ═ SIMULTANEOUSY AT SHUTTER SPEED SETTINGS B OR X200

* Lead wire (black) #1062: poor soldering
* Brush, shutter control unit #527: poor contact

10. IC TURNS ON AT SHUTTER SPEED SETTINGS B OR X200

* IC PIN (3): poor soldering
* Lead wire (black) #1062: poor soldering
* Lead wire (brown) #1063: poor soldering
* Switch S3: failure to be closed
* Brush, shutter control unit #527: poor soldering

11. METER HOLDING TIME IS INCORRECT

METER HOLDING TIME → Excessive Long
* Resistor #1021: poor soldering
* Meter switch S1: failure to be closed

METER HOLDING TIME → Short
0 sec. * Condensor #1044: poor soldering or fault
15 sec. * Condensor #1044: installed, with polarity reversed

12. LED'S GLOW FLUCTUATING

* Brush A, FRE #518: instable contact
* FRE brush #520: instable contact
* FRE #552, FRE axle #513, Earth contact #516, FRE retainer spring #517, Screw #538, Earth spring #539: failure to be earthed
* FRE: dirt or breakage of resistor element

13. METER ACCURACY IS OUT-OF-ADJUSTMENT

(1) BATTERY CHECKER VOLTAGE

* Variable resistor #1031 (VR1): soldering bridge
* Variable resistor #1031 (VR1): connector floating

(2) γ VOLTAGE

* Variable resistor #1033 (VR2): soldering bridge
* Variable resistor #1033 (VR2): connector floating
* IC: incorrect γ voltage (Specification; 250±21mV)
  check voltage between Vcc and PIN (15)
* FRE: incorrect installation

(3) SHIFT VOLTAGE

* Variable resistor #1033 (VR3): soldering bridge
* Variable resistor #1033 (VR3): connector floating
* SPD: poor soldering
* SPD: installed, with polarity reversed
* IC: incorrect Rf (exposure meter resistance value)
* FRE: out-of-adjustment

[6] READY-LIGHT LED

1. LED FAILS TO GLOW/FLICKER

* IC PIN (7): poor soldering
* Condensor #1042: fault (inner short-circuit)
* LED: installed, with polarity reversed
* Signal contact #57: poor soldering with Ready-light circuit board #1002
* Earth lug plate #54: poor soldering with Ready-light circuit board #1002

2. LED FAILS TO FLICKER AT SHUTTER SPEED SETTINGS FROM 250 TO 4000

* IC PIN (6): poor soldering
* Switch S2: failure to be opened
* Lead wire (violet) #1061: short-circuit
* Shoe connecting contact A #288: poor soldering with terminal h on Ready-light circuit board #1002
* Shoe connecting contact A #288: poor contact with Ready-light circuit board #1002

3. LED CONTINUES TO FLICKER

* Lead wire (violet) #1061: poor soldering
* Switch S2: failure to be closed
* Brush, shutter control unit #527: poor contact

4. LED TURNS OFF AT SHUTTER SPEED SETTINGS FROM 250 TO 4000

* IC PIN (8): poor soldering
* Condensor #1042: poor soldering or inner fault

[7] MOTOR DRIVE

1. MOTOR DRIVE FAILS TO WORK

* Lead wire (green) #1055: poor soldering
* Lead wire (violet) #1056: poor soldering
* MD switch (S6): failure to be closed or opened
* Lever switch (S7): failure to be closed
* Blade A, MD switch #179: short-circuit with bottom cover

2. OTHERS

(1) METER HOLD FAILS TO BE CANCELED BY ATTACHING MD 11

* Lead wire (orange) #1058: poor soldering

(2) METER HOLD IS CANCELED BY ATTACHING MOTOR DRIVE

* Lead wire (red) #1053: poor soldering

(3) MOTOR DRIVE FAILS TO WORK WHEN FILM-ADVANCE LEVER IS IN STAND-OFF POSITION

* Lever switch (S7): failure to be opened

[8] SPEED LIGHT FAILS TO FIRE

* Lead wire (green) #1070: poor soldering
* Lead wire (blue) #1071: poor soldering
* X-contact (S8): failure to be ON
* Shoe connecting B #289: poor contact with Ready-light circuit board #1002
* Lower contact, shoe #51: poor soldering with Ready-light circuit board #1002

[9] DATA BACK SWITCH (S9) FAILS TO TURN ON

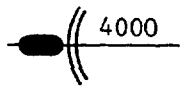
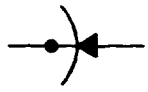
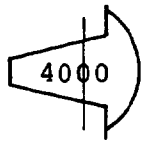
* Lead wire (white) #1057: poor soldering
* Lead wire (white) #1066: poor soldering
* Shutter switch A #364: settling
* Shutter switch B #365: failure to be earthed

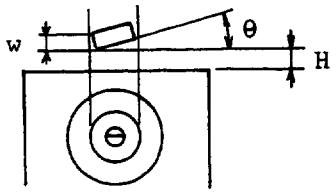
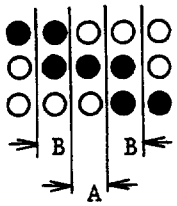
# INSPECTION STANDARD FOR REPAIR

## INSPECTION STANDARD FOR REPAIR

| | Item | Standard | Tool |
|---|---|---|---|
| WINDING MECHANISM/SHUTTER RELEASE | Film advance lever torque | Film unloaded : 2.0 kg-cm or less<br>Film loaded : 3.5 kg-cm or less | Torque meter |
| | Spool | Torque : 90 - 140g-cm<br>Slipping load : 144 - 224g | J15003<br>J5019 |
| | Sprocket | Play of the tips of sprocket teeth : 0.8mm or less<br>Reverse action after winding: 1.2mm or less | J18064-1 |
| | MD coupling | Start angle : -1° - 2°<br>Wound angle : 132° - 138°<br>Torque : Equivalent to those of film advance lever | Torque meter |
| | Rewind button | To be set : 2.7mm from the surface of bottom cover | Slide caliper |
| | Rewind knob torque | Film unloaded : 25 - 40g-cm | J5018 |
| | Shutter button | Release power : 250 - 400g<br>Whole stroke : 2.5 ± 0.3mm<br>Release stroke : 0.4mm or less from the surface of button guide<br>Switch ON stroke: 0.3mm or more from the surface of button guide | J5019 |
| | MD plunger | Height from the surface of bottom cover : 0.5 +0.3mm -0.2mm<br>Release power : 500g or less<br>Release stroke from the surface of bottom cover: 3.4mm or less | Slide caliper |
| SHUTTER SPEEDS DELIVERY | Exposure time | See table below | Shutter tester J19033 |

| Shutter speed | Upper limit | Standard | Lower limit |
|---|---|---|---|
| 1 | 1320ms | 1000ms | 755ms |
| 2 | 660 | 500 | 377 |
| 4 | 330 | 250 | 188 |
| 8 | 165 | 125 | 94 |
| 15 | 82.5 | 62.5 | 47 |
| 30 | 41.25 | 31.25 | 23.5 |
| 60 | 20.62 | 15.63 | 11.8 |
| 125 | 10.31 | 7.81 | 5.92 |
| 250 | 5.63 | 3.91 | 2.72 |
| 500 | 2.81 | 1.95 | 1.36 |
| 1000 | 1.41 | 0.98 | 0.68 |
| 2000 | 0.71 | 0.49 | 0.34 |
| 4000 | 0.36 | 0.25 | 0.174 |
| X200 | 6.2 | 5.05 | 4.07 |

| | Item | Standard | Tool |
|---|---|---|---|
| SHUTTER SPEEDS DELIVERY | Shutter speed difference (measured at the center of aperture plane) between two adjacent settings | 1/500 - 1/1000 : 0.35ms or more<br>1/1000 - 1/2000 : 0.18ms or more<br>1/2000 - 1/4000 : 0.09ms or more | Shutter tester J19033 |
| | Exposure variation | 1 - 1/1000 : 0.3EV or less<br>1/2000 - 1/4000 : 0.5EV or less | |
| | Self-timer | Delayed action time : 8 - 14sec<br>To be reset by reversing lever | Stop watch |
| | X contact | Time lag : 0.05 - 0.2ms<br>Contact rate : 60% or more (1ms)<br>Insulation : 30M or more | J19028-1 J9006 |
| SHUTTER DIAL | Click out torque | 600 ± 200g-cm | Torque meter |
| | Setting alignment | Shutter speeds :   | |
| | | ASA :  | |
| VIEWFINDER | Infinity focus | ± 20" (Not to be varied after/before winding) | J18010 J19001 |
| | Parallax error | 0.5mm or less vertically/horizontally | |
| | Viewfinder coverage | 93% or more | |
| | Viewfinder frame inclination | 1° or less | |
| | LED | To be visible clearly<br>Not to protrude in the view frame | |
| | Shutter speeds indication | To be visible clearly<br>Not to excessively protrude in the view frame<br>Not to incline by more than 5° against the side line of frame<br>  <br>a | |

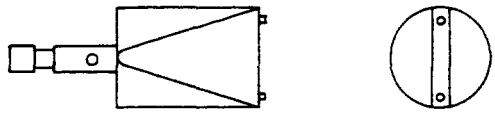
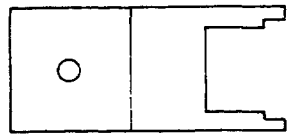
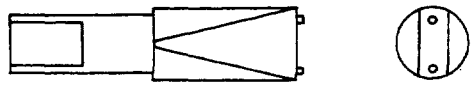
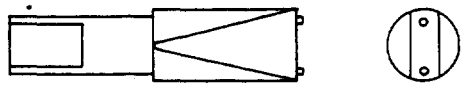
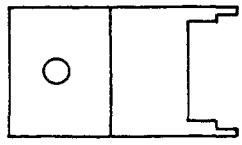
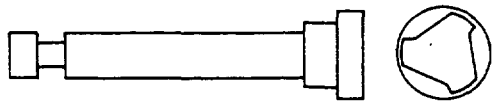
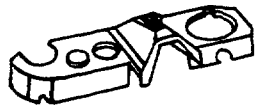
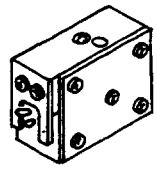
<table>
<tr><th></th><th>Item</th><th>Standard</th><th>Tool</th></tr>
<tr><td>VIEWFINDER</td><td>ADR window position</td><td>Height (H) = 0.5W - 1.5W<br>Inclination (θ) = 2° or less<br>  </td><td></td></tr>
<tr><td rowspan="6">EXPOSURE METER ACCURACY</td><td>Ready-light LED</td><td>X200 - 1, B = Glowing<br>1/250 - 1/4000 = Blinking</td><td>J15147</td></tr>
<tr><td>ASA setting</td><td>ASA 12 - 3200 settings should be checked at the combinations F1.4/B and F22/1/1000.</td><td rowspan="5">K=1.16<br>Light box<br>Tool lens (50/1.4)<br>J18072</td></tr>
<tr><td>Accuracy allowance<br>ASA100</td><td>
<table>
<tr><td>Brightness Cd/m$^2$</td><td>2</td><td>8</td><td>64</td><td>256</td><td>4096</td></tr>
<tr><td>EV</td><td>4</td><td>6</td><td>9</td><td>11</td><td>15</td></tr>
<tr><td>F</td><td>2.8</td><td>2.8</td><td>4</td><td>4</td><td>8</td></tr>
<tr><td>Shutter</td><td>2</td><td>8</td><td>30</td><td>125</td><td>500</td></tr>
</table>
Level A : ± 0.5 EV<br>Dead range : 0.3 - 0.5 EV<br>Level B : 0.7 - 1.1 EV<br>  </td></tr>
<tr><td>LENS MOUNT</td><td>Aperture lever height</td><td>After mirror charge : 3.1 ± 0.1mm<br>0<br>Before mirror charge : 3.6mm or less<br>Balance between before/after charge : 0.15mm or more<br>Full stroke : 7.1mm or more<br>Tension (mirror charged) : 90 - 120g</td><td>J18004</td></tr>
<tr><td>Aperture coupling ring</td><td>Rotation angle : 52.5° - 112.5°<br>Torque : 750g-cm or less (forward)<br>350g-cm or less (reversed)</td><td>J18063<br>J18058</td></tr>
<tr><td>Metal back focus</td><td>46.67 ± 0.02mm<br>Parallelness : 0.2mm</td><td>J18001-1<br>J19004</td></tr>
</table>

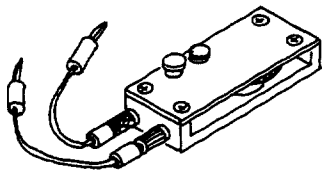
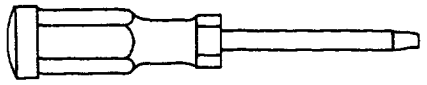
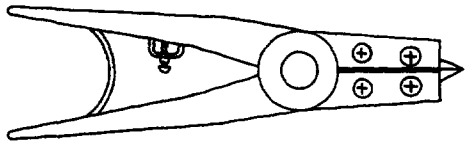
NKK J434 A4 1-1 2000 K

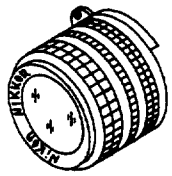
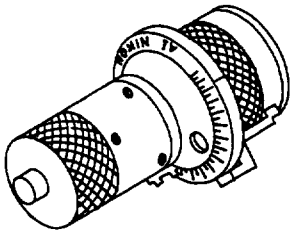
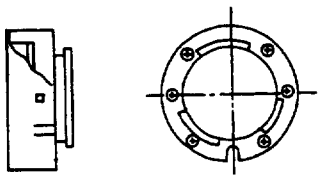
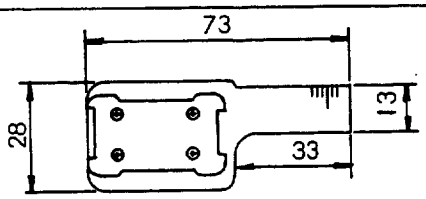
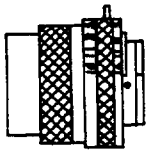
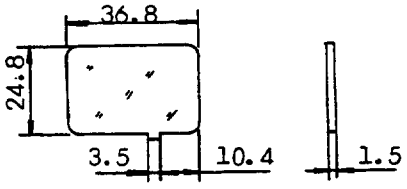
| | Item | Standard | Tool |
|---|---|---|---|
| | | Balance of height between internal and external film rails : 0.23 ± 0.02mm | |
| | Pressure plate | Leveling : 0.02mm or less | |
| | Battery checker | Battery checker LED turns on at 2.40V and off at 2.28V. | |
| | Meter-On duration | 30 ± 10 sec. after finger is taken off the shutter release button | |

# TOOLS

(1) FM2用工具ゲージ一覧表 Tool List

| 工具番号 Tool No. | 名称 Name | 略図 Illustration | 区分 Class. | 備考 Commeon use |
|---|---|---|---|---|
| J11126 | レバー押えネジ #403用 回螺器 Screwdriver (Film-advance lever) |  | A | FM, FE |
| J11118 | スプロケット軸受 #438用 回螺器 Screwdriver (Spricket shaft lower bearing #438) |  | B | FM, FE |
| J11132 | ダイアル上面ビス #536用 回螺器 Screwdriver (Shutter dial screw #536) |  | A | FM |
| J11135 | 絞りレバービス #314用 回螺器 Screwdriver (Aperture lever screw #314) |  | B | FM |
| J11139 | レバー軸ナット #405用 回螺器 Screwdriver (Film-advance lever shaft nut #405) |  | B | FM, FE |
| J11155 | スプロ制限カム #429用 回螺器 Screwdriver (Sprocket stopper sam #429) |  | | FM, FE |
| J15138 | 輝度校正用 Tool top cover |  | A | FM用を加工 FM |
| J15147 | ストロボ代用工具 Tool speed-light |  | B | FE |

| 工具番号<br>Tool No. | 名　称<br>Name | 略　図<br>Illustration | 区分<br>Class. | 備　考<br>Commeon use |
|---|---|---|---|---|
| J15148 | 回路点検用工具電池<br>Tool buttery |  | A | FM, FE |
| J15135 | 高周波ドライバー<br>High-frequency screwdriver |  | A | 先端を加工して使用<br>When using modfy the tip |
| J 5127 | 回螺器ホルダー<br>Screwdriver blade holder | | A | |
| J 5272 | ミラーアップレバー<br>Gクリップ #299用<br>回螺器<br>Pliers (G-snap ring #299 the mirror-up lever) |  | A | FM, FE |

| Tool No. | Name | Illustration | Class. | Common use |
|---|---|---|---|---|
| J18004 | Aperture lever positioning gauge | Refer to tool instruction manual | B | All cameras |
| J18006 | Test chart | | C | |
| J18010 | Standard lens 50mm f2 | | C | |
| J18033 | Focusing screen tool | | C | |
| J18037 | Mirror 45° inspecting tool | | A C | |
| J18041-1 | Tool lens for shutter tester 50mm f1, 4 |  | A | EL2 FM FE |
| J18042 | Aperture lever depth gauge | Refer to tool instruction manual | C | All cameras |
| J18058 | Torque gauge for AI lens & body |  | C | AI lenses FM EL2 FE |
| J18063 | F-number window checking gauge |  | B | FM FE |
| J18064 | Sprocket teeth positioning gauge |   | B | FM FE |
| J18065 | F-number checking gauge |  | A | FM EL2 FE |
| J18070 | 45 degree positioning tool mirror |   | C | FE |

(2) General purpose instruments

| Tool No. | Title | Remarks | Usable other tool |
|---|---|---|---|
| J19033 | Shutter tester | For 35mm focal-plane shutter camera | J19006-1 |
| J19028-1 | Megger | 500MΩ | J19028 |
| J19009-2 | Brightness box | | J19001-1<br>J19009-3<br>J19009-4<br>J19022-1 |
| J9003-2 | Digital multi-meter | Resolving power: 1μV/DCV | J 9003-3 |
| J19001 | Collimator (f=600mm, D=120mm) | With stand | J19001-1 |
| J19004 | Dial indicator (with stand) | Scale div. 0.01mm, stroke 5mm | |
| J19006 | Test meter | | |
| J9001-5 | DC regurated power supply | 0 — 18V variable, Max. 2A | J9001<br>J9001-1 |

# LUBRICANT AND BINDING AGENT LIST 潤滑油・接着剤一覧表

## LUBRICANTS 潤滑油

| Oil 油 | Usage 用途 | Items number 番号 | Items 商品名 Japanese 日本 | Material Code No. 資材コード | Remarks 備考 |
|---|---|---|---|---|---|
| Liquid oil 液体油 | At a normal temperature 常温用 | L 1212 | 日本石油 白スピンドル油 No.5 | E 205 | |
| | | L 1233 | シエル石油 トナオイル #33 | E 216 | |
| | | L 1309 | モービル石油 モービルーブ HD80—90 | E 223 | |
| | | L 1314 | モービル石油 モービルーブ HD140 | E 224 | |
| | | | | | |
| | At a low temperature 低温用 | L 2010 | ウイリアム・エフ・ナイ(木村産業) アストロオイル | E 269 | |
| | | L 2113 | 三建化工 セバケイト D.O.S | E 274 | |
| | | L 2215 | エクリプス・パイオニア エクリプス・パイオニア #10(ジャイロ油) | | |
| | | | | | |
| | | L 3016 | 理研製油 スクワレル LA—10 | E 261 | |
| | | L 3025 | 理研製油 スクワレル M—1 | E 262 | |
| | | L 3034 | 理研製油 スクワレル M—2 | E 263 | |
| | | L 3044 | 理研製油 スクワレル M—5 | E 264 | |
| | | L 3047 | 理研製油 スクワレル H—1 | E 265 | |
| | | | | | |
| Grease oil グリース | At a normal temperature 常温用 | G 5201 | 社内調合 | | |
| | | G 5204 | 社内調合 | | |
| | | G 5214 | 社内調合 | | |
| | | | | | |
| | | G 6053 | 日本鉱油 パーマルブ H1003 | E 275 | |
| | | G 6252 | 出光興産 ダフニコロネックス 2 | E 2836 | |
| | | G 6372 | シエル石油 シエルアルバニア 2 | E 218 | |
| | | G 6414 | 杉浦研究所 光学用グリース Z—2 | | |
| | | G 6433 | 杉浦研究所 光学用グリース X—2 | E 2837 | |
| | | | | | |
| | | G 7821 | 丸善石油 リマックス 2 | E 225 | |
| | | | | | |
| | | G 8681 | ロックレー(大東商事) オートリキモリ LM—81 | E 277 | |
| | | | | | |
| | At a low temperature 低温用 | G 7100 | 理研製油 スクワグリース L—2 | E 266 | |
| | | G 7811 | 日本鉱油 フォートルブ 024 | E 272 | |
| | | G 7812 | 日本鉱油 フォートルブ 025 | | |
| | | G 7813 | 社内調合 | E 280 | |
| | | G 7814 | 協同油脂 マルテンプPS No.1 | E 267 | |
| | | G 7815 | 協同油脂 マルテンプPS No.2 | E 2844 | |
| | | G 7833 | 東レシリコーン シリコーンSH.33(F)グリース | E 2845 | |
| | | G 7848 | 日本石油 ユニテンプグリース | E 2846 | |
| | | G 7854 | 日本鉱油 パーマルブ C—1 | E 2847 | |
| | | G 7855 | 日本鉱油 パーマルブ C—2 | E 2848 | |
| | | G 7816 | トーオーポリマー ホワイトグリースA | E 2842 | FL-LUBE-A |

## LUBRICANTS 潤滑油

| Oil 油 | Usage 用途 | Items number 番号 | Items 商品名 Japanese 日本 | Material Code No. 資材コード | Remarks 備考 |
|---|---|---|---|---|---|
| Grease oil グリース | At a low temperature 低温用 | G 7856 | 日本鉱油 パーマルブ C－3 | E 2849 | |
| | | G 7862 | 日本鉱油 パーマルブ F－2 | | |
| | | G 7866 | 日本鉱油 フォートルブ 023 | E 271 | |
| | | G 7870 | モービル石油 モービルグリース 28 | E 2851 | |
| | | | | | |
| | | G 8181 | 社内調合 | E 281 | |
| | | G 8610 | ロックレー(大東商事) リキモリブースター LM－83 | E 276 | |
| | | G 8613 | ロックレー(大東商事) リキモリパウダー LM－13 | E 2853 | |
| | | | | | |
| | | | | | |
| | | IJ-10 | 日本鉱油 | | |

## BINDING AGENTS 接着剤

| Usage 用途 | Items number 番号 | Items 商品名 Japanese 日本 | Material Code No. 資材コード | Remarks |
|---|---|---|---|---|
| For leather or rubber goods. 皮類，ゴム類 | # 501 | プライオボンド #30 | E 154 | |
| For make metal goods together with metal goods or glass with metal 一般金属相互 ガラスと金属 | # 616 | セメダインスーパー（家庭用） セメダイン#1500 （工業用） | | |
| | # 648 | セメダイン#1590ハイスーパー | | |
| | # 621 | セメダイン#1565 | E 175 | |
| | # 631 | アラルダイト AT 1 | E 180 | |
| | # 634 | 主剤 アラルダイト AY 101 硬化剤 ハードナー HY 951 | | |
| | #645HB, #645HE | DM K 5 | E 160 | |
| For temporary adhesion in the process 工程上の仮止め | # 201 | セラック オレンジ色，レモン色可 | E 375 | |
| | # 350 | ねじロック 赤，白 | E 157 | |
| | # 410 | ロックタイト（B/M黄，ST/L赤 SC/L紫，N/L青， | E 163 ～ E 166 | |
| | # 921 | アロンアルファ # 201 | E 155 | (20g入) |
| | # 922 | アロンアルファ # 202 | E 156 | (20g入) |
| For replenishment 充填を主とする接着 | # 503 | ウェザーバンシーラー | E 185 | |
| | # 506 | スリーボンド №4 | | |
| | # 508 | シラシール 3DW | | |
| | # 515 | KE45RTV | E 186 | |
| | #646HB, #646HE | DM D 6 | | |
| | #647HB, #647HE | DM K 3 | | |
| | # 518 | KE1202LTV | | |
| | # 710 | セメダイン1001 | E 179 | |
| | # 703 | セメダイン1003 | | |

# Nikon FM2n Specifications

| | |
|---|---|
| Type of camera: | 35mm single-lens reflex |
| Picture format: | 24mm x 36mm standard 35mm film format. |
| Lens mount: | Nikon F mount; meter coupling lever provided; meter coupling lever release button not provided. |
| Lenses: | Lenses with Nikon F mount (with some limitations); AF lenses. |
| Shutter: | Vertical-travel, metal focal-plane mechanical shutter with aluminium alloy curtains. |
| Shutter release button: | Mechanical; centre-threaded shutter release button accepts standard cable release such as the Nikon AR-3; button locked when film advance lever is flush with the camera body. |
| Shutter speed settings: | 1/4000 sec to 1 sec, B bulb; 14 discreet settings in all. |
| Exposure meter switch: | Light pressure on shutter release button switches meter on; meter stays on for approx 30 sec after finger is removed from button, then automatically switches off; meter automatically turned off when shutter speed dial is set to B. |
| Film advance lever: | Single stroke type; 30 degrees stand-off angle and 135 degrees winding angle. |
| Self-timer: | Set/cancel mechanical type provided; approx 10 sec shutter release delay. |
| Viewfinder: | Eye level pentaprism type; 0.86 x magnification (with 50mm lens set at infinity); finder coverage approx 93% of picture field. |
| Viewfinder display: | Shutter speed, aperture direct readout (ADR) f/number in use, and five different LED exposure displays using +, o and - signs. |
| Focusing screen: | Split-image microprism Type K2 provided as standard; interchangeable with matte Type B2 and matte with horizontal and vertical line etchings Type E2. |
| Reflex mirror: | Automatic quick return type incorporating special control gear and wheel-and-brake mechanism for reduced vibration and noise; non-lockable type. |
| Depth-of-field preview: | Via lever. |
| Motor drive coupling: | Electrical contact and coupler built-in for operation with MD-12 Motor Drive, which is operable when film advance lever is flush with body. |
| Multiple exposure lever: | Provided; disengages frame counter for correct count. |
| Frame counter: | Additive type (S..1-36); automatically resets to S when camera back is opened. |
| Film rewind: | By crank provided after film rewind button is pressed. |
| Accessory shoe: | Standard ISO type; ready-light contact provided. |
| Flash synchronisation: | Built-in ISO-type hotshoe; threaded sync cord terminal provided for off-camera or multiple-flash synchronisation with electronic flash units at all speeds up to 1/250 sec. |
| Ready-light: | LED visible inside viewfinder lights up when Nikon dedicated Speedlight is fully charged; blinks to warn that the shutter speed set is beyond the sync range of the electronic flash. |

| | |
|---|---|
| Exposure metering: | TTL centre-weighted (60/40) full-aperture exposure metering system using a pair of silicon photodiodes (SPDs) and metering monolithic IC circuit. |
| Metering range: | EV 1 to EV 18 (at ISO 100 with f/1.4 lens). |
| Film sensitivity range: | ISO 12 to 6400 |
| Power source: | Choice of one 3V lithium battery CR-1/3N type, two 1.55V silver-oxide batteries SR-44 type, or two 1.5V alkaline batteries LR-44 type; optional Anti-Cold Battery Holder DB-2 accepts two AA alkaline, Ni-Cd or manganese batteries. Note: for Nikon products using AA batteries, do not use lithiums unless specifically stated. |
| Battery power check: | LED exposure display inside viewfinder lights up when exposure meter is switched on if there is sufficient power (ie, shutter speed dial is set anywhere except B). |
| Camera back: | Hinged; pops open when the film rewind knob is pulled up as the camera back lock is pushed; interchangeable with Data Back MF-16; memo holder provided. |
| Body finish: | Chrome and black. |
| Body dimensions: | 142.5 x 90 x 60mm approx. (W x H x D): |
| Body weight: | 540g approx. |